Esnova

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

LOGISTICS STORAGE WMS SOFTWARE

The **Strength** of simplicity

Dear customer:

We are very proud of showing you our product catalogue, in which you can find the best solutions to organize and administrate offices, warehouses and workshops.

The products here offered are supported by an industrial organization that owns the most advanced technologies on design and production.

All raw materials used in our productive processes are manufactured and developed in the UE and they satisfy the most demanding quality regulations, calculation codes, they respect the environment and assure industrial safety.

The trust our customers have placed in us has allowed Esnova despite the economical crisis to experiment a significant increase of our annual turnover which evidences that is possible to compete in this business with products manufactured in Europe when we combined technology, innovation and service.

Our Account Managers are always at your disposal to establish a direct relationship, quicker and more efficient as these days require.

We hope that our products will be of your interest,

Sincerely,

Marco Antonio Fernández Alonso
CEO Esnova Racks S.A.

Esnova Racks S.A. Head office and Manufacturing Plant - 46.600 m^2.

- Who we are? ____ 4
- Products ____ 6

STORAGE

- Shelving System:
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Innovation

Innovation to develop new products and optimizing the existing ones.

Technology

Our machinery at your disposal.
We are equipped with the most flexible and advanced production systems.

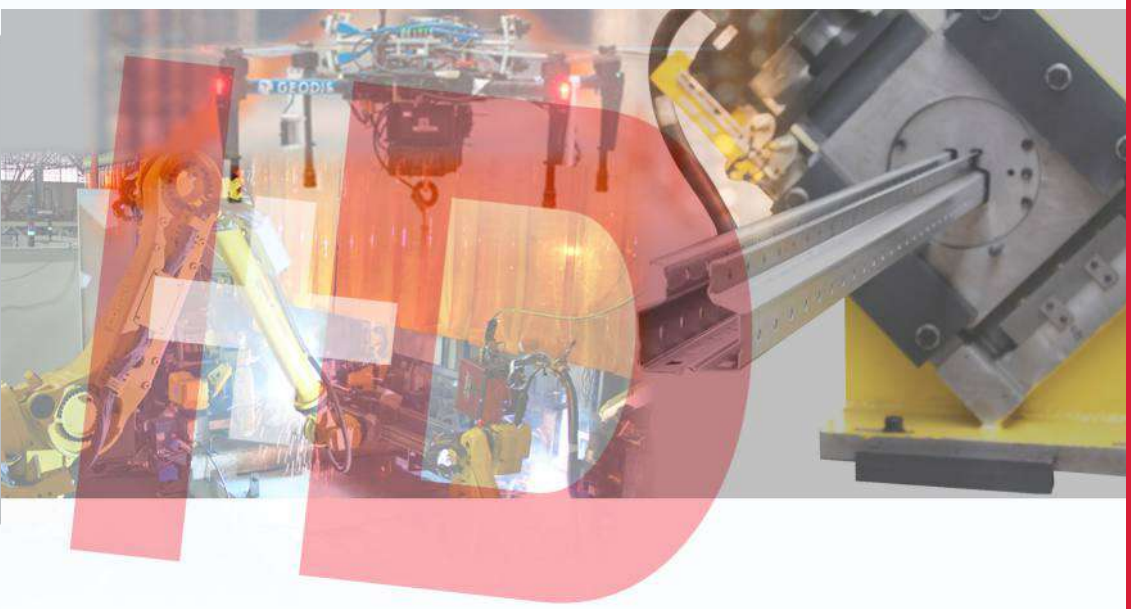
Service

In spite of the time of crisis we currently have, we are able to offer extraordinary opportunities. Esnova provides a full-service, profiting time, quality and price; developing from all your business areas competitive and satisfying solutions for your customers.

We have more than 56 years of Know-how on the logistics and warehousing areas and that is an important motivation to be better every day.

Esnova makes exports to 40 countries worldwide.

Angola · Austria · **Belgium** · Czech Republic
Denmark · Dominican Republic · **France**
Germany · **Guatemala** · Ireland · **Malt** · Morocco · **Norwey**
Panama · **Portugal** · Uruguay · **El Salvador** · Switzerland
The Netherlands · United States of America
United Kingdom · Slovakia · **Saudi Arabia** · Poland
Qatar · Omán · **Emirates** · Chile · **Peru**
Bahrein · **Kuwait** · Jordania · **Egypt** · Honduras
Indonesian · Colombia · **Mexico** · Cuba · **Hungary** · Israel



Quality

Quality as a priority standard is established on each and every process Esnova develops.

The group invests in quality and safety and also promotes environmental respect.

- Quality management system certification (ISO 9001).
- Environmental management system certification (ISO 14001).
- Occupational health and safety management system certification (ISO 45001).
- CE marking certification acc. UNE EN 1090.

- Member of the European Federation of Material Handling FEM/AEM.

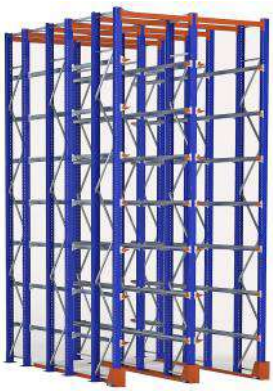
Products

BOLTLESS SHELVING SYSTEM (Pg. 10 - 14)

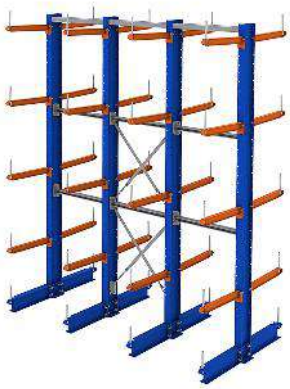
WIDE SPAN SHELVING M66 (Pg. 16)

PALLET RACKING (Pg. 18)

DRIVE IN (Pg. 20)



CANTILEVER (Pg. 22 - 23)



SHUTTLE CART (Pag. 24)

PALLET LIVE STORAGE (Pag. 25)

MOBILE PALLET RACKING (Pag. 26)

RACK CLAD BUILDINGS (Pag. 28)

AUTOMATED STORAGE SYSTEMS (Pag. 32)

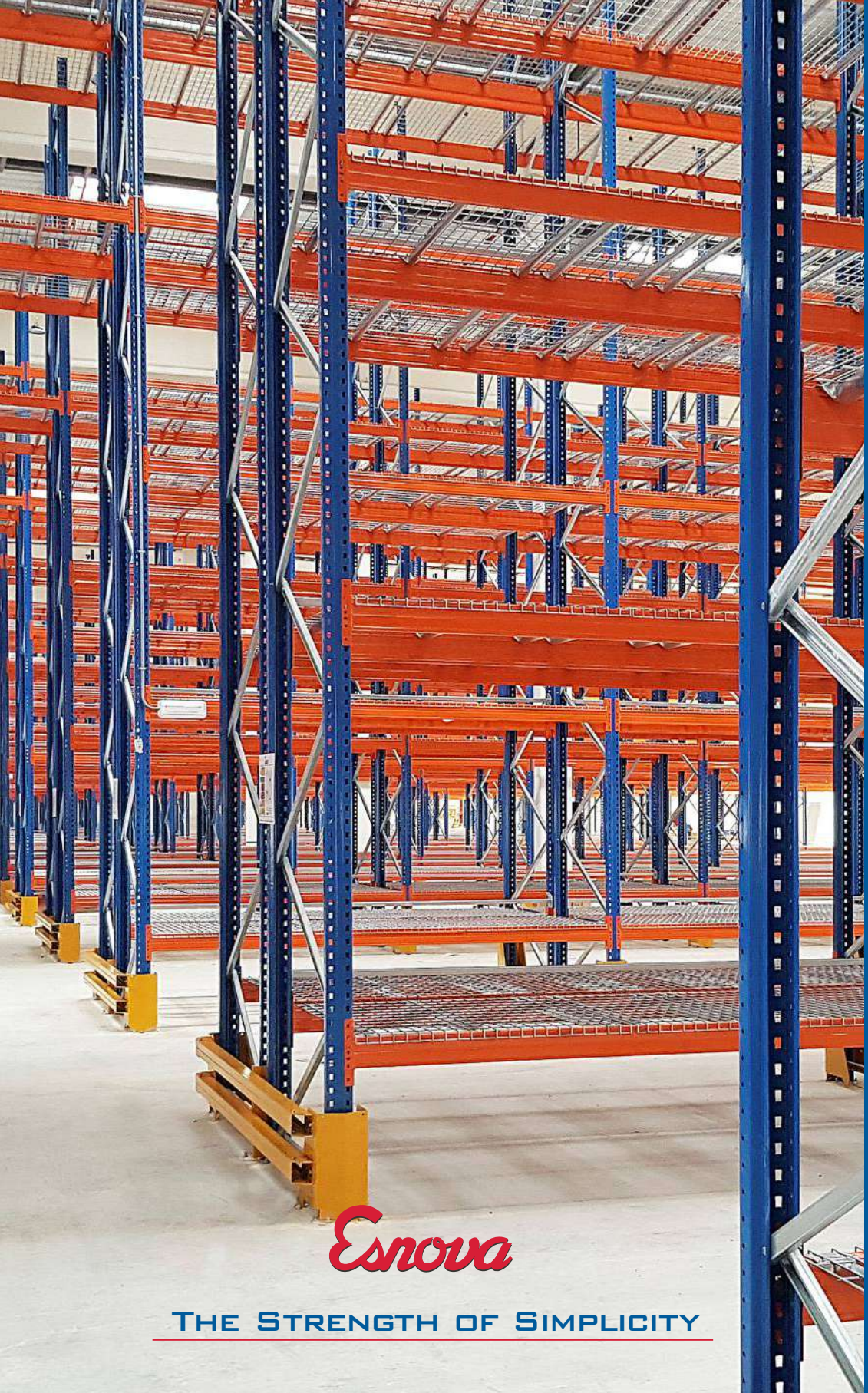
ESNOVA SOFTWARE (Pag. 38)

Design, calculation, manufacturing and assembly of Storage Systems

- ✓ Our Technical Department is at your entire disposal to satisfy all the storage needs of our customers.
- ✓ We study your particular case and give you the best solution adapted to your needs.
- ✓ Storage system calculations for areas with seismic risk.

Ask for our product catalogue:
info@esnova.es

- ✓ We have a **testing laboratory** where load testing, strength, buckling, etc are performed.



Esnova

THE STRENGTH OF SIMPLICITY

Boltless shelving for large size loads

Riveto® 1

BOLTLESS

MULTIPLES APPLICATIONS ACCESSORIES

STANDARD COLOURS

UPRIGHTS

Blue 5019 | Grey 7032 | Pregalvanized

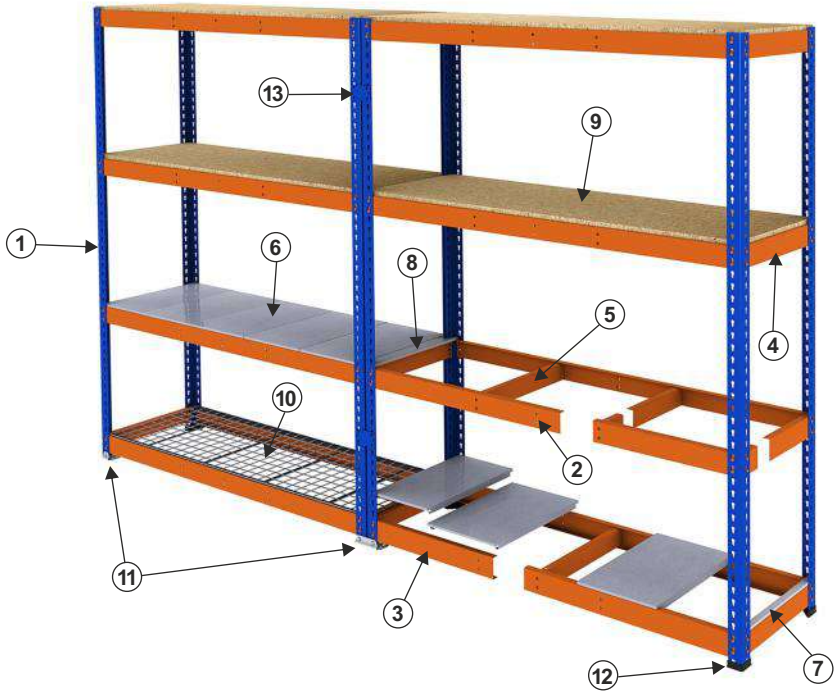
BEAM / CROSSBEAM

Orange 2004 | Grey 7032 | Pregalvanized

MAXIMUM LOADING (Chipboard panel: 16 mm. Thickness). Kg/level U.D.L.

Depth	315 mm. - 468 mm. - 620 mm.				
Width	1.231 mm.	1.536 mm.	1.841 mm.	2.146 mm.	2.450 mm.
L	590 Kg/level	440 Kg/level	190 Kg/level	-	-
LA+A	770 Kg/level	640 Kg/level	420 Kg/level	-	-
LA+2A	-	680 Kg/level	450 Kg/level	-	-
U	960 Kg/level	706 Kg/level	536 Kg/level	400 Kg/level	250 Kg/level
UA+A	1100 Kg/level	800 Kg/level	610 Kg/level	577 Kg/level	545 Kg/level
UA+2A	-	1000 Kg/level	700 Kg/level	600 Kg/level	560 Kg/level

Depth	772 mm. - 925 mm. - 1.229 mm.				
Width	1.231 mm.	1.536 mm.	1.841 mm.	2.146 mm.	2.450 mm.
L	467 Kg/level	344 Kg/level	200 Kg/level	-	-
LA+A	800 Kg/level	640 Kg/level	420 Kg/level	-	-
LA+2A	-	640 Kg/level	470 Kg/level	-	-
U	760 Kg/level	560 Kg/level	720 Kg/level	323 Kg/level	200 Kg/level
UA+A	920 Kg/level	820 Kg/level	720 Kg/level	620 Kg/level	500 Kg/level
UA+2A	-	1050 Kg/level	800 Kg/level	660 Kg/level	570 Kg/level



1 UPRIGHT R1/R1Z

2 mm. Thickness

1.981 mm.
2.438 mm.
3.048 mm.
3.658 mm.

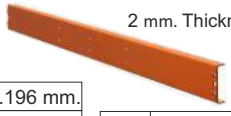
2 BEAM LA/LAZ

LA48	1.196 mm.
LA60	1.501 mm.
LA72	1.806 mm.

2 mm. Thickness

3 BEAM UA/UAZ

2 mm. Thickness



UA48	1.196 mm.
UA60	1.501 mm.
UA72	1.806 mm.

UA84	2.111 mm.
UA96	2.415 mm.

4 CROSSBEAM L/LZ

2 mm. Thickness

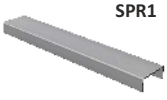
L12	280 mm.
L18	433 mm.
L24	585 mm.
L30	737 mm.
L36	890 mm.
L48	1.194 mm.

5 BRACING A/AZ

A12	306 mm.
A18	459 mm.
A24	611 mm.
A30	763 mm.
A36	916 mm.
A48	1.220 mm.

6 STEEL PANEL R1/SPR1-N

7 SIMPLE STEEL PANEL CLOUSE SPR1



8 DOUBLE STEEL PANEL CLOUSE SPR1

9 CHIPBOARD PANEL AGL

16 mm. Thickness

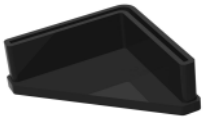
10 WIRE MESH

11 STEEL FEETS

SIMPLE CMS1Z

DOUBLE CMD1Z

12 PLASTIC FEET



13 TIE PLATE PU1/PU1Z

Boltless shelving for small size loads Riveto® 2

Example:
Reel rack made in Riveto 2

STANDARD COLOURS

UPRIGHTS

Blue 5019 | Brown 8017 | Pregalvanized

BEAM / CROSSBEAM

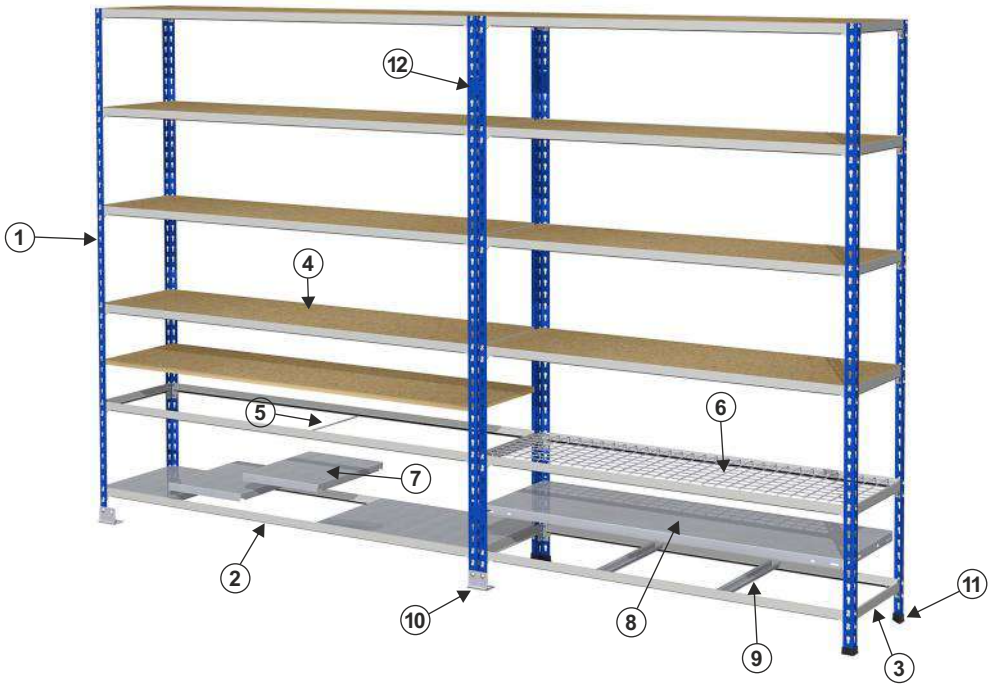
Brown 8024 | Grey 7032 | Pregalvanized

ACCESSORIES

Spacer
Recommended for bays 2 m. And higher. Distance from wall: 50 mm. - 100 mm.

Dividers and ledges
This system keeps the shelves perfectly distributed so as to avoid accidental falls.

Magnetic labels
Dimensions: 80 X 25 mm.

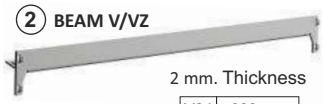


1 UPRIGHT R2/R2Z

1,8 mm. Thickness

1.981 mm.
2.438 mm.
3.048 mm.

2 BEAM V/VZ



2 mm. Thickness

V12	304 mm.
V14	365 mm.
V15	381 mm.
V18	456 mm.

V24	609 mm.
V30	731 mm.
V36	914 mm.
V40	1015 mm.
V48	1219 mm.

3 CROSSBEAM V

V12	304 mm.
V14	381 mm.
V18	456 mm.
V24	609 mm.
V30	731 mm.
V36	914 mm.

2 mm. Thickness

4 CHIPBOARD PANEL AGL

16 mm. Thickness

5 WIRE BRACING VH

6 WIRE MESH

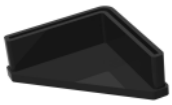
7 STEEL PANEL R2

8 STEEL SHELF SZ

9 STEEL SHELF REFORCE

10 STEEL FEET CMR2

11 PLASTIC FEET



12 TIE PLATE PU2/PU2Z

A two tier system shelving Riveto 1

- This storage system will take advantage of the existing vertical space in the warehouse by creating different shelving floors, which are connected among them by stairs and aisles.
- Modular system. There is the possibility to increase the installation sideways and in depth without no problem.
- It can be adapted to the available space.

Riveto Applications

Workstation with louvre back panel

Workbench

Workstation

Garment shelving

Tyre rack

Side table

...and many more...

Riveto® Light Shelving for AGV vehicles

Esnova adds to its product range a new light duty shelving for the exclusive use of AGV vehicles

AGV Vehicles (Automatic Guided Vehicles) are intelligent industrial vehicles that move without a driver and do not require direct human intervention.

These vehicles are equipped with different guidance systems and a complex control and management system.

ASK FOR OUR PRODUCT CATALOGUE

Model RIVET-BOX

Model RIVET-HANG

Model RIVET-ROBOT

FINISHINGS

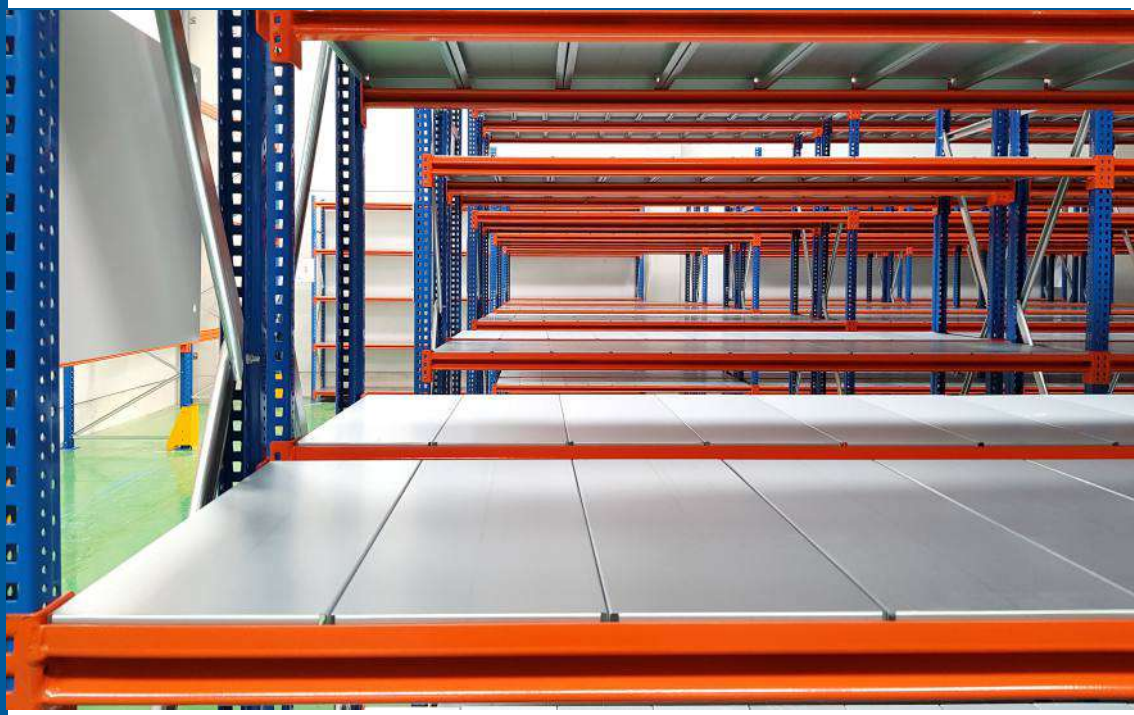
Several standard finishings are available:

- Shelf painted in GREY 7032.
- Shelf painted in BLUE 5019.
- Shelf painted in BLUE 5019 (Base and uprights) and ORANGE 2004 (beams).

Wide span shelving

Manual storage system for medium and heavy loads.

- Direct access to the goods. Best to use when many different items and irregular rotation.
- Great strength.
- Easy and fast assembly.
- Adjustable to different volume and cargo sizes.



BEAMS

BEAM Z35

BEAM ZG35

BEAM Z85E

BEAM Z55E

BEAM ZG55E

BEAM ZG85E

BEAM Z65E

BEAM ZG65E

BEAM GRAN MILANO

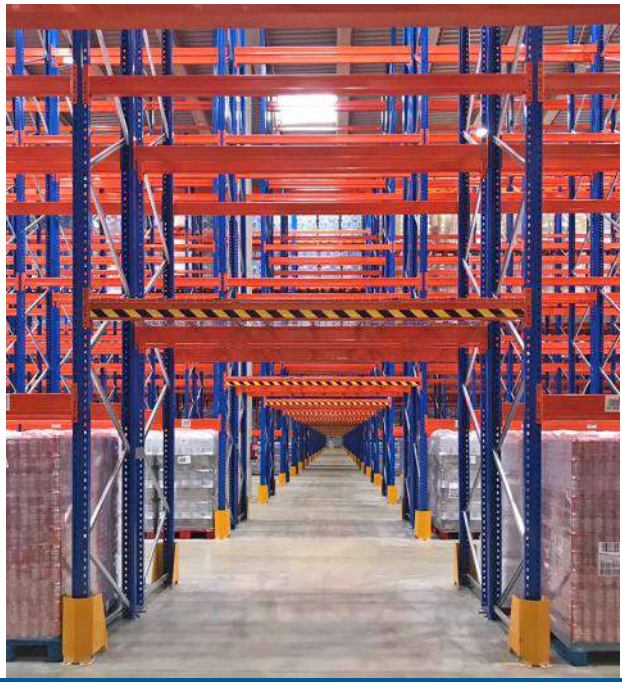
BEAM MV

Pallet Racking

- It is the suitable system for the storage of palletized loads of multiple references.

- It allows the immediate access to all the units of load.

- Great resistance. Conventional Pallet Racking adapts to the storage need.



Custom made projects

Our Technical Department has the solution for any storage need.

Design and execution of special storage systems with the most advanced informatic programs.

Components

FOLDED BASE PLATE

PLK5

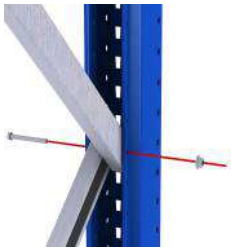
NBP4

Standard finishing Pregalvanized

UPRIGHT ER

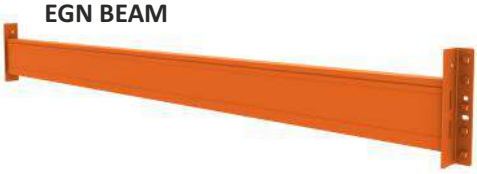
Standard finishing Blue 5019
Pregalvanized

HORIZONTAL/DIAGONAL



Standard finishing Pregalvanized

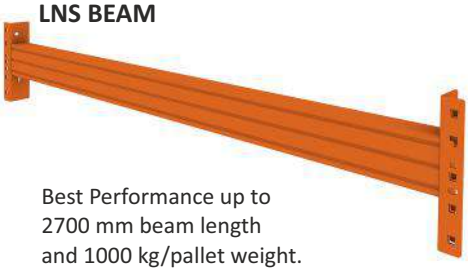
EGN BEAM



SAFETY CLIP

Standard finishing Pregalvanized

LNS BEAM



Best Performance up to
2700 mm beam length
and 1000 kg/pallet weight.

DUO CONNECTOR

Standard finishing Orange 2004

ACCESSORIES:
Defenses
Crossbeams
Spacers
Metallic panels
etc...

Safety and Protection

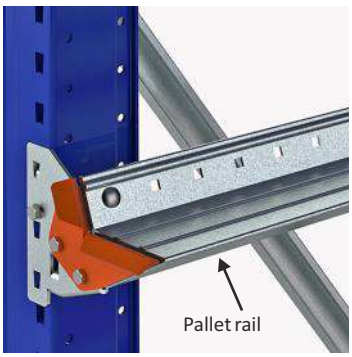
ANTI-FALL MESH

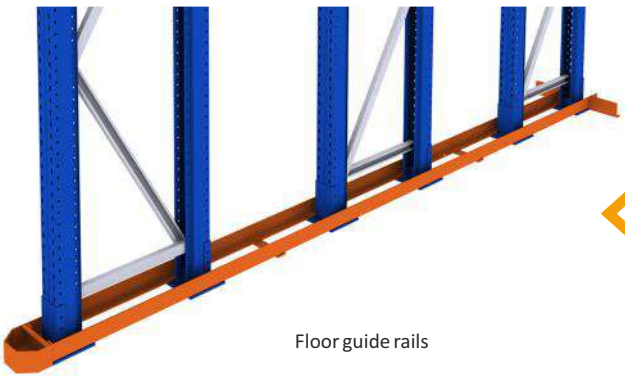
Electrowelded mesh pannels are used as security closings in aisle or transit areas to avoid goods from falling.

PROTECTIONS FOR FRAMES AND UPRIGHTS

Drive In

- Cost effective solution to high density storage.
- Significant feature is that up to 85% of the available space can be used.
- Appropriate system when loading large quantities of like-product.





Floor guide rails

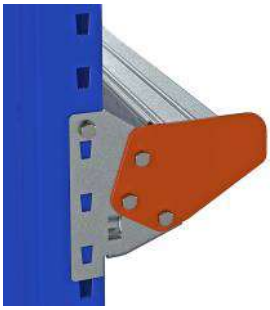
It is a forklift guidance system that allows work in lanes with more than six meters depth and height.

Post Protector

It is important to protect the bottom of posts and frames.

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.

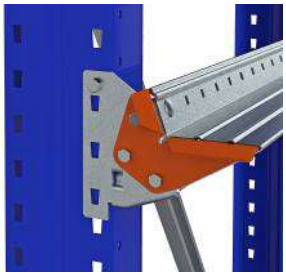


Floor Level Pallet Stopper

This element works as an aisle end reference for the floor level in a single entry type of drive-in.

Pallet Entry Guide

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



Cantilever Racking

- The main characteristic of the Cantilever Storage System is its capacity to support high volume and length loads.

- It can also be perfectly adapted to the different needs such as variable length and different heights loads. It allows as well to place levels at one or both sides of the central column and its assembly
  is simple.

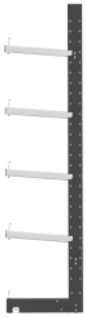
Standard dimensions	
Column height (H*)	2500-3000-3500-4000-4500-5000-5500-6000-6500-7000
Arm length (L*)	600-800-1000-1250-1500

* *Measures in mm.*

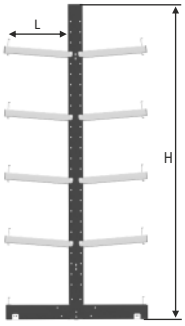
Light Cantilever

- A system for storing **light loads** of great lengths or volumes.

Single Frame



Double Frame



Standard dimensions	
Column height (H*)	400-500-600-700-800-900-1000-2000-2500-2900
Arm length (L*)	70-80-90-100-120-150-180

** Measures in mm.*

Vertical Storage Cantilever

- Storage system designed for long loads or big volume ones in a **vertical disposition**.

The arrangement of the spacer arms can be adjusted to the client's necessities.

Shuttle Cart

- The main feature of our Shuttle Cart System is to facilitate and improve the loading and unloading of goods, without the need for trucks to access the storage aisles.

- The shuttle cart runs on rails, selecting input and output pallets via a remote control.

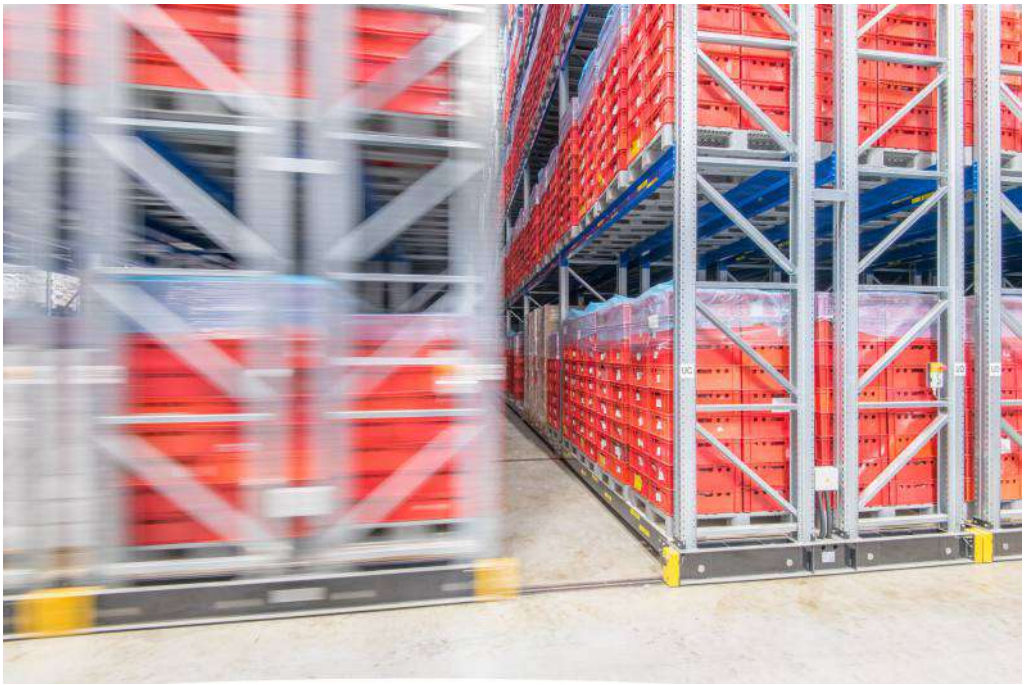
ASK FOR OUR PRODUCT CATALOGUE

Pallet live storage

- Flow racking systems for boxes or pallets.
- Sloped roller truck beds for a perfect motion of the pallets.

Mobile pallet racking

- High storage density.
- The Pallet racking is fitted on rail-guided mobile bases.
- Optimal for high floor prices.
- Perfect for cold storage systems.



Mezzanine floor

- Maximum advantage of warehouse free area, doubling or tripling the surface area.

- Mezzanine floors may be use with elevating systems which enable goods accesability.

CUSTOM MADE PROJECTS

Rack clad buildings

THE BEST SOLUTION FOR THE STORAGE IN HEIGHT,
(MORE THAN 40 m. HIGH).

Construction of conventional warehouse building is not required.
Makes de maximum use of available space.
Flexible and adaptable to your storage needs (loading units, dimensions...)

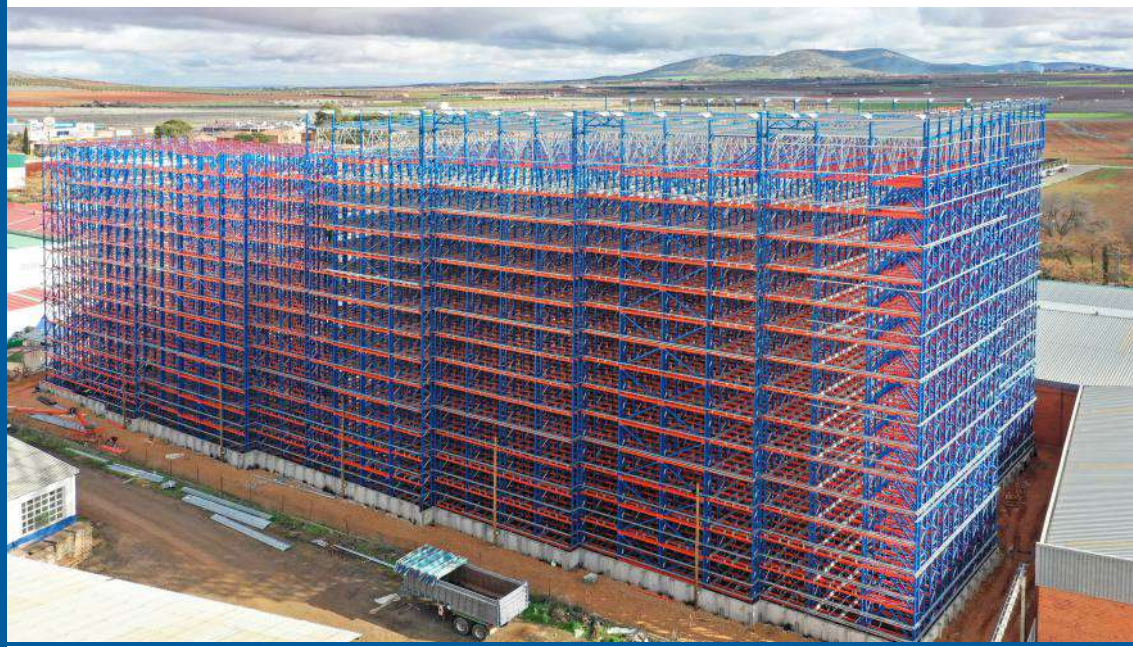
Automated systems with high levels of productivity

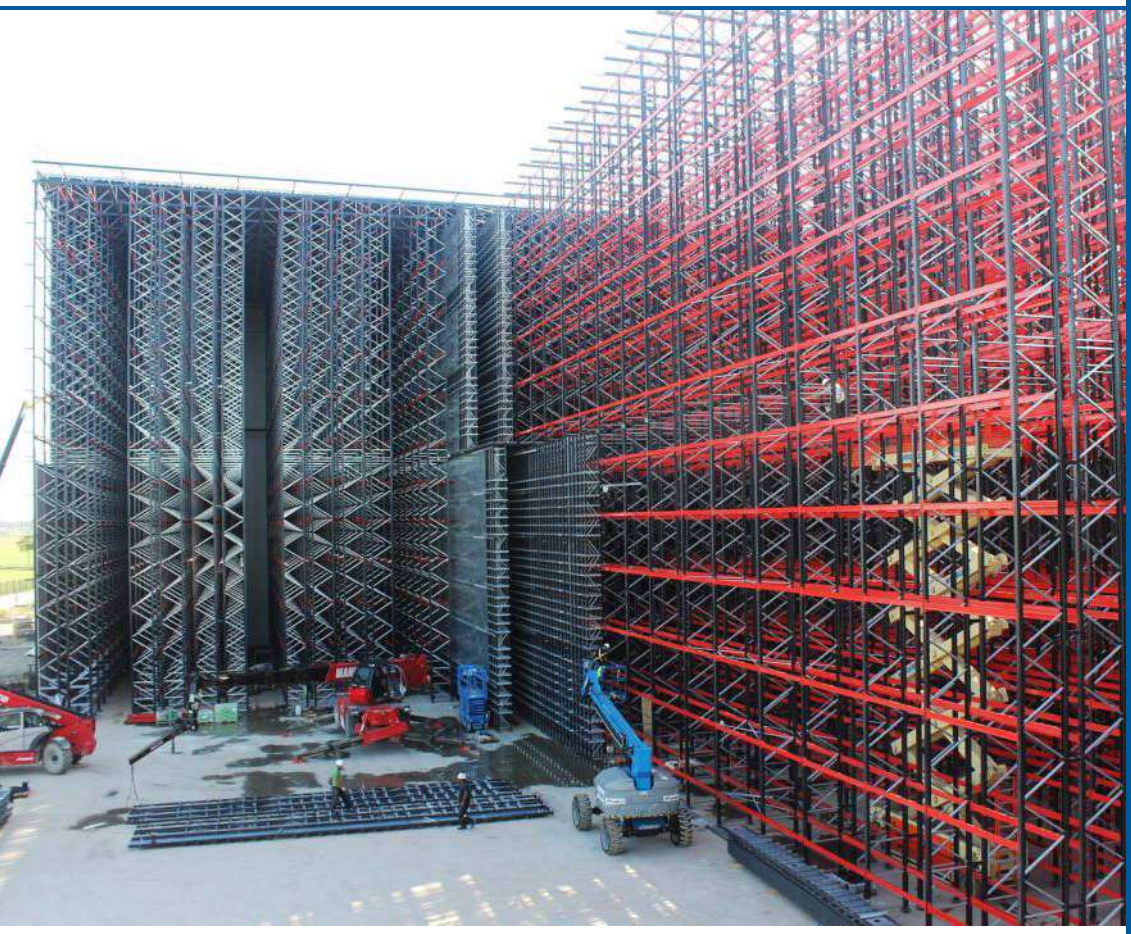
- The racking is its own building structure (self-supported).

CUSTOM MADE PROJECTS

- Designed for high storage.

The system elements form a compact block together with the building envelopes and enable the automation of storage processes.

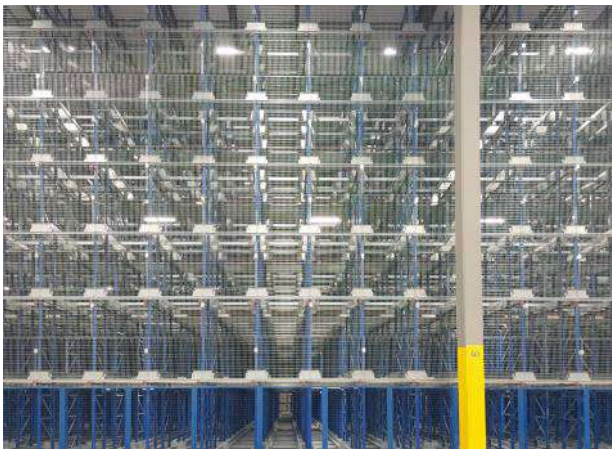


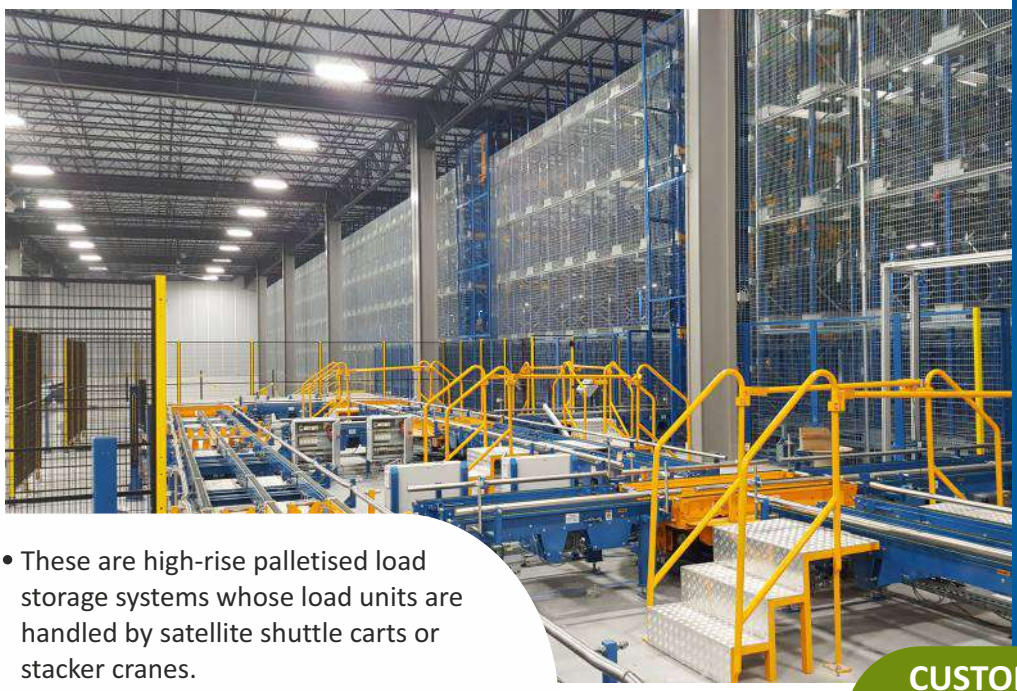


They provide solutions to the most demanding logistical requirements and can achieve high levels of automation with high levels of productivity.

Automated Storage Systems

Manage your warehouse on an automated way and optimize the storage, the picking processes and the shipping of your goods. Maximum stock control, speed up your picking processes and higher efficacy in the inbound and outbound of goods.

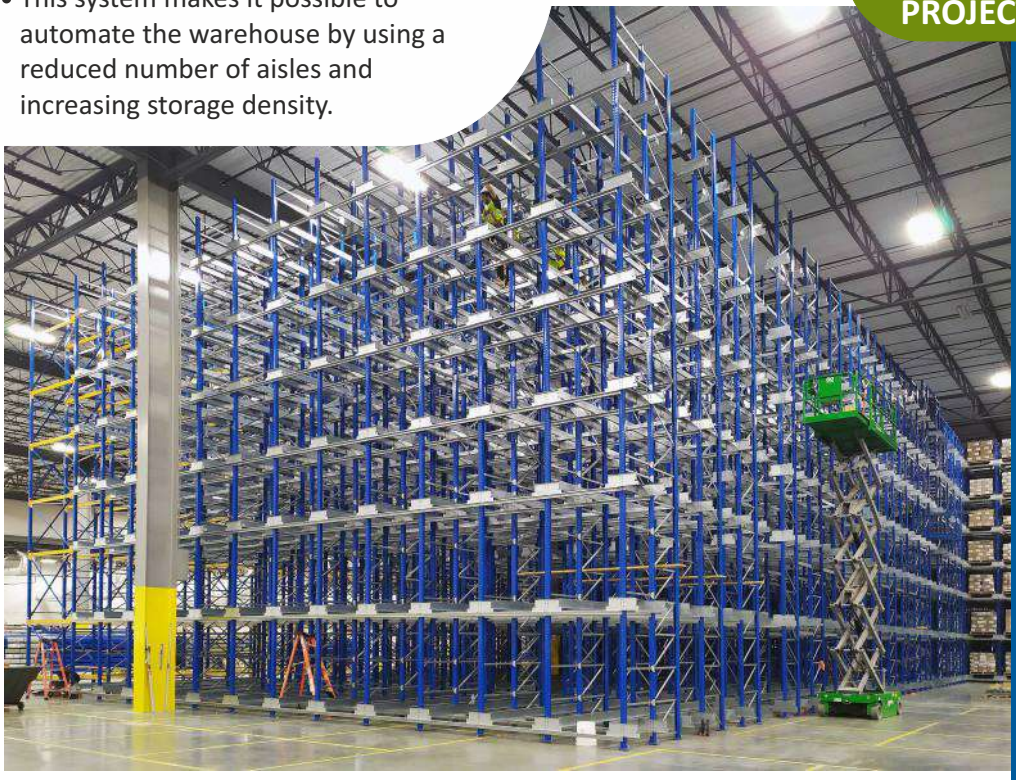


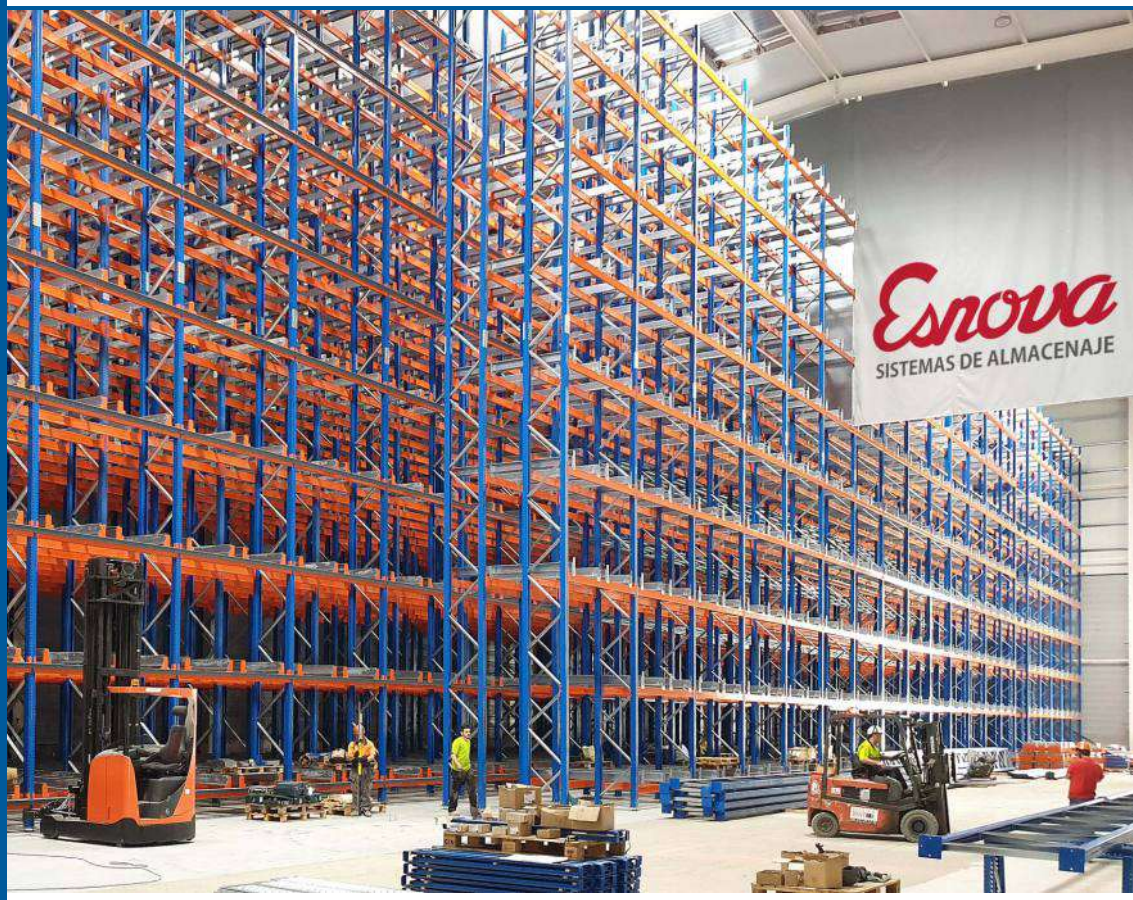


- These are high-rise palletised load storage systems whose load units are handled by satellite shuttle carts or stacker cranes.

CUSTOM MADE PROJECTS

- This system makes it possible to automate the warehouse by using a reduced number of aisles and increasing storage density.





The automation of logistic processes and the storage through technologically advanced automated applications, requires the deployment of industrial racking systems adapted to the requirements and operative specifications of the project.

These systems are very precise solutions that require high quality standards for the racking with very strict tolerances. Esnova makes available to its customers proved quality procedures and a competent human team with extensive experience in the design and installation of racking systems.

Automated Storage Systems - Miniload

Productivity and cost reduction

The automation of the storage systems increases the productivity of your logistic activities.

A reduction of operating costs and damages, as well as an increase in safety can be achieved through higher levels of automation.

Miniload

APPROPRIATE FOR THE STORAGE OF LIGHTS BOXES

Loading units are light boxes. Miniload systems can be operated with stacker cranes for one box per level (uniload), or for multiple boxes per level (multiload).

The storage solution can de designed for storage of boxes in depth operated by stacker cranes combined with shuttle carts. Very high projects can be projected as multilevel miniload solution with 2 stacker cranes in height.

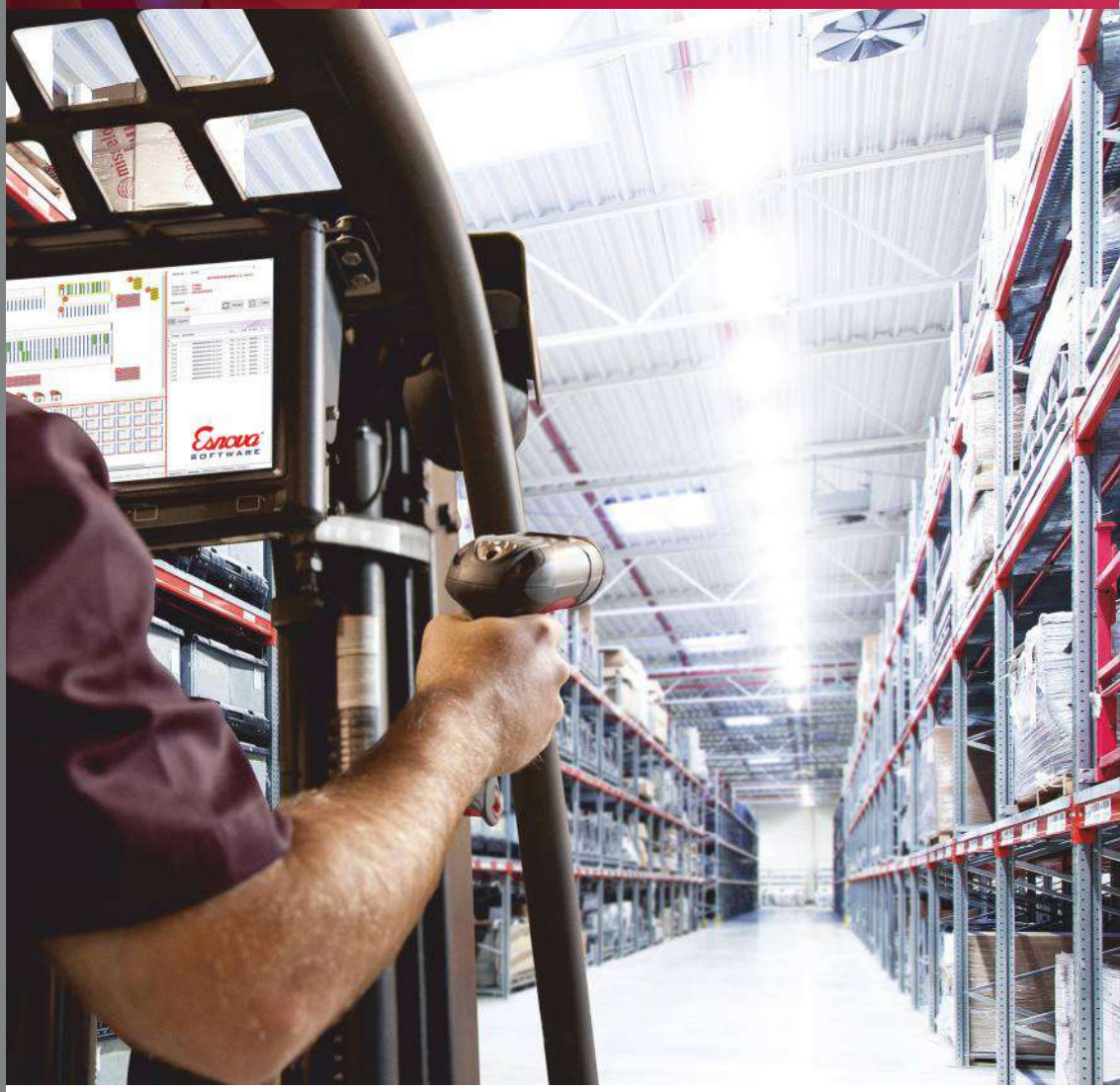
Automated systems for hanging garments

TEXTILE INDUSTRY

Esnova has developed special solutions in the fashion industry for the storage of hanging garments. Hangers can be disposed on rods manipulated by stacker cranes that deposits and collects them from special supports installed on the racking.

Special solution can be developed for the manipulation of hanging garments through aerial transport conveyors disposed on multitier mezzanines.

WMS WAREHOUSE MANAGEMENT SOFTWARE



Esnova incorporates to its product range a new software tool to manage our storehouses in a comfortable, easy and profitable way.

Esnova Software is the warehouse management tool that optimizes all processes (reception, order preparation, shipping), reducing costs and improving the service quality. It is based in an effective and easy managing for any user.

Suitable with other devices

- It decreases up to 90% the risk of errors, resulting in a significant time and money saving.
- It speeds up common procedures as reception, storing, order preparation and shipping.
- It increases the storage profitability and allows control the existing stock in real time.
- Esnova Software is designed to make its use easy and intuitive.
- Is a custom-made tool, adaptable to the needs of each customer.
- Better exploitation of the storage space and merchandise organization.
- Accurate control of the tracking for the different references in the warehouse.
- Using this tool you will be able to analyze your store's statistics, providing decision-making and increasing productivity.

Find out more about **Esnova Software** in...

www.esnova.com

Esnova

The Strength of simplicity

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

Mobile pallet racking
Pallet live storage

Two tier systems
Mezzanines

Medium and light loads:
- Wide span shelving
- Riveto shelving
- Slotted angle shelving

Heavy loads:
- Pallet racking
- Drive In
- Shuttle cart
- Cantilever
- Automated storage systems
- Rack clad buildings

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

ESNOVA RACKS, S.A.
C/ Ataúlfo Friera "Tarfe", Nº 5 · Pol. Ind. Los Campones - Tremañes - 33211 · Gijón (Asturias - SPAIN)
+34 985 308 980 info@esnova.es

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