# Esnova



## SHUTTLE CART **SLIDEB**2X

The **Strength** of simplicity



We can draw on more than 50 years of knowledge in the design and manufacture of Storage Systems. We have consolidated and strengthened our position based on the straightforward and fresh approach of a young and specialised team, which, together with our state-of-the-art technologies, has enabled ESNOVA to enjoy the trust of new clients every day.



WE EXPORT TO MORE THAN 40 COUNTRIES



of Storage Systems



#### **EXPERIENCE**

We can rely on a large group of professionals with extensive experience in the logistics sector.

We shall provide you with a swift and straightforward response. We have a large number of items in stock available for delivery in a few days and we can adapt to the specific needs of any type of business and warehouse. From the lightest shelving to the most sophisticated automated warehouses.

We create efficient warehouses, study each individual case, and offer customised solutions that:

- Optimise available space.
- Increase storage capacity.
- Improve the profitability of each square metre dedicated to storage.
- Enhance organisation for easy location and greater protection against damage and misplacement.
- Increase safety for staff and facilities.
- Deliver greater productivity across operations and resources.
- Provide a better service to customers.



#### **SOLUTIONS**

Metal industrial shelving for the storage of all types of products. Light, medium and heavy loads, palletised loads, large loads...

Standard pallet racking, Drive-in racking, Cantilever, Clad-rack and automated warehouses, Manual loading racks, Riveto boltless racks, Multi-tier racking, Mezzanines, Metal containers... All of them make up a wide range of storage solutions which, together with the advice of our technical and sales team, will provide a quality, safe and cost-effective solution to your storage problems.







#### **Technology**

Our machinery at your fingertips. We employ the most flexible and advanced production systems to design and manufacture costeffective metal parts, components and products.

#### **Tests**

We have a Testing Laboratory where we verify the properties of the various components of each system and perform load tests, resistance tests, buckling tests...

#### Innovation

Innovate to improve new products and optimise existing solutions.

#### Quality

At Esnova, quality is a priority in each and every one of the processes we carry out.

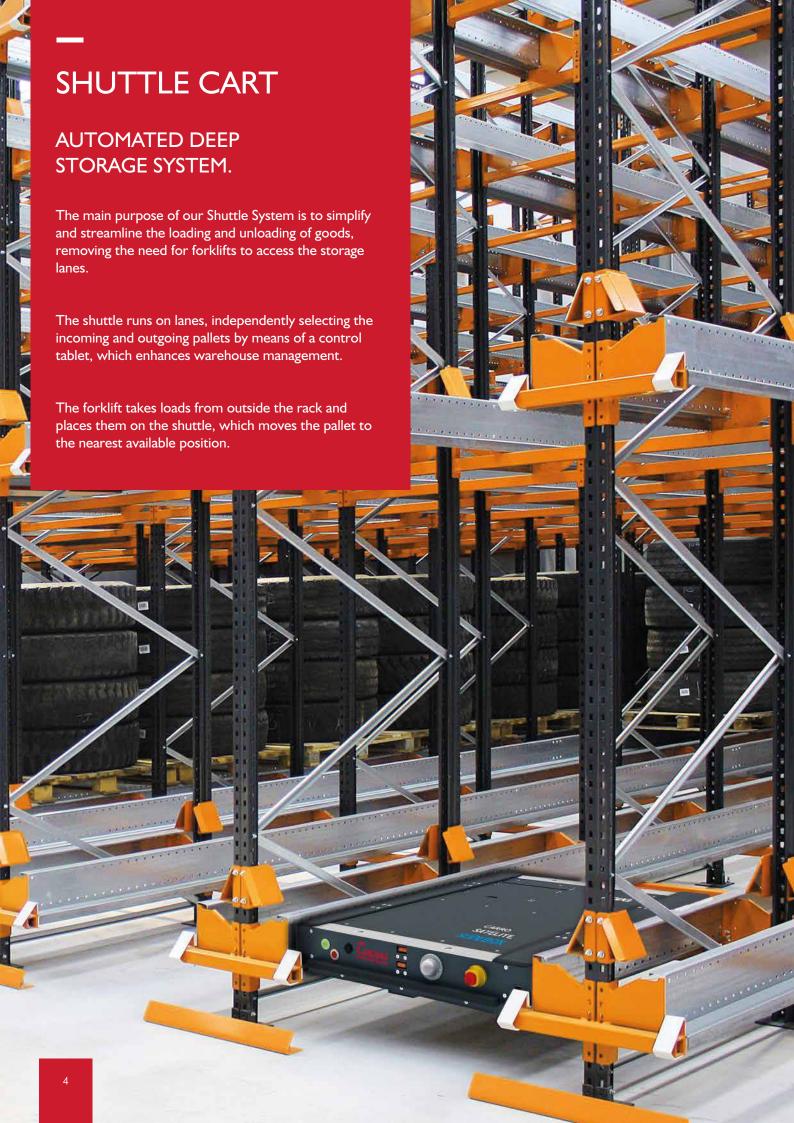
- Certificate in quality management system (ISO 9001).
- Certificate in environmental management system (ISO 14001).
- Certificate in occupational health and safety management system (ISO 45001).
- CE Marking certificate.
- Member of the European Materials Handling Federation FEM/AEM.













#### **OPERATION, THE 4 STAGES**

In semi-automatic facilities that use a shuttle, it should be noted that the operators only handle the forklifts and activate the operation of the shuttle.

The shuttle moves independently once it is on the metal rack system.

There are 4 stages in the storage process when a shuttle is used:



The shuttle is placed on the lane where it is to be operated by a forklift.



In stage 3, the shuttle will start loading operations when the operator gives the command using a tablet.

The shuttle lifts the pallet and moves horizontally until it reaches the first available location to place the load.

The movements of the loads are controlled by a range of extremely accurate sensors.



Then, the pallet is brought to the entrance of the lane using a forklift and placed on the load profiles.



In the last stage, the shuttle performs the same action at the beginning of the lane where it picks up the next pallet and repeats the operation until the lane is full.

The shuttle is removed before the last slot is occupied. It then repeats the process in the next lane where it is needed to place more loads.

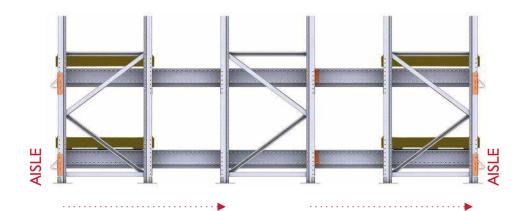
Several shuttles can be used in the same facility.

Offloading is carried out in the same way but in reverse order.

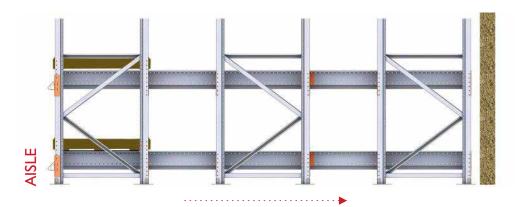
#### 2 WAREHOUSING OPERATIONS

Semi-automatic compact storage systems, as we have already mentioned, make it possible to store items using two types of operations:

FIFO (First In, First Out)
This procedure requires two
access aisles, one for incoming
items and one for outgoing items.
The first pallet in is the first out.



LIFO (Last In, First Out)
In this case, the last pallet in is the first out. Therefore, loading and retrieval operations are performed at the same point.







### **BENEFITS**



PRECISION AND SPEED. REDUCED WORKING TIMES COMPARED TO A CONVENTIONAL COMPACT SYSTEM.



HIGH STORAGE DENSITY.



INCREASED SAFETY. IT PREVENTS KNOCKS CAUSED BY FORKLIFTS AND THE ACCIDENTAL ENTRAPMENT OF PEOPLE THANKS TO ITS SENSORS AND REMOTE HANDLING.



IT MAKES IT POSSIBLE TO STORE DIFFERENT TYPES OF ITEMS PER MODULE.



SUPPORTS DIFFERENT TYPES OF PALLETS.



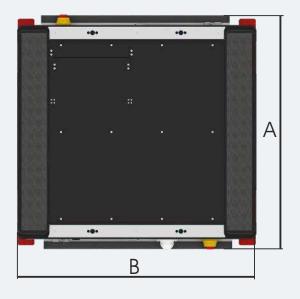
EASY TO USE.







THE SLIDEBOX SHUTTLE HAS BEEN SPECIFICALLY DESIGNED, MANUFACTURED AND MARKETED FOR THE DEEP STORAGE OF PALLETIZED GOODS TRANSPORTED ON LANES AND OPERATED BY A TABLET.



#### **DIMENSIONS**



Pallet size	A (mm)	B (mm)	C (mm)
1200x800	923	947	185,5
1200x1000	1123	947	185,5
1200x1200	1323	947	185,5





- ► WEIGHT OF SHUTTLE (INCL. BATTERY): 220 KG.
- ► MAXIMUM SHUTTLE LOAD: 1.500 KG.
- ► SHUTTLE SPEED: 50-70 M/MIN (LOADED-UNLOADED).
- ▶ LITHIUM BATTERY: 8 H. DURATION UNDER STANDARD CONDITIONS.
- ► OPERATING TEMPERATURE: 0°C / 45°C

#### **SERVICE TROLLEY**

An accessory that allows an operator to travel along the storage lane. Operation is fully manual.

Ideal to reach the position of a shuttle if it should unexpectedly stop working. It can be attached to the service trolley to be retrieved.



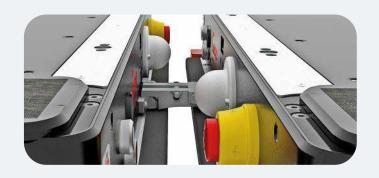
#### **RESCUE HOOK**

An accessory used to retrieve a shuttle stranded in a storage lane.

This accessory is only feasible if more than one shuttle is available in the facility to serve as a rescue shuttle.

The rescue hook is bolted to the rescue trolley and is advanced from the Tablet to the damaged trolley to which a rescue handle has been previously bolted where the hook is coupled to be able to drag the damaged trolley.



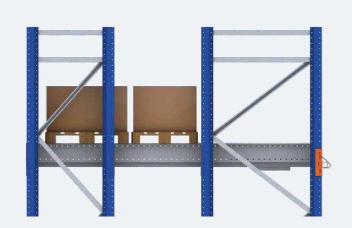


#### **MULTIPALLET FUNCTION**

Pallet recognition function for pallets of different depths. The Slidebox Shuttle can retrieve and place loads and organise storage lanes even when different pallet formats are used.

This function can be used in both storage methods (FIFO/LIFO).

A Slidebox shuttle can handle pallets with a depth equal to or less than the depth of the shuttle on the same storage lane. It can handle pallets measuring 800, 1.000 and 1.200 mm deep.



#### **SOFTWARE**



The shuttle is operated by proprietary software that controls all its functionalities.

This software is delivered to the customer with a **Tablet**, which is used to operate the shuttle.

- **Settings:** Set shuttle speeds, distance between pallets, stopping distances at start and end points, etc.
- **Operations:** Pallet retrieval and placement, compacting, inventory, FIFO/LIFO system, manual movements, etc.
- **Alarm management:** When connected to a shuttle, the tablet will monitor all possible alarms reported by the shuttle so that the operator can establish the causes of a shutdown or any anomaly in the operation of the shuttle.

One tablet can be used to operate several shuttles and, similarly, one shuttle can be operated from several tablets.



#### **BATTERY CHARGER**

The battery is charged by placing it in the battery charger (supplied with the shuttle). Place the battery in the charger correctly and ensure that the connectors are securely engaged.

The battery is designed to withstand the intensive use of the shuttle.

The tablet will display the current charge level, and a "charge battery" warning will appear when the battery is low.



#### **RACK FOR CHARGERS**

Metal shelving for the battery chargers of the slidebox shuttle cart.

Different models, with capacity for 2 and 3 chargers.



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

## 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** 



#### 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.

#### ESNOVA RACKS, S.A.

C/ Ataúlfo Friera "Tarfe", N° 5 · Pol. Ind. Los Campones - Tremañes 332 I · Gijón (Asturias - Spain)





