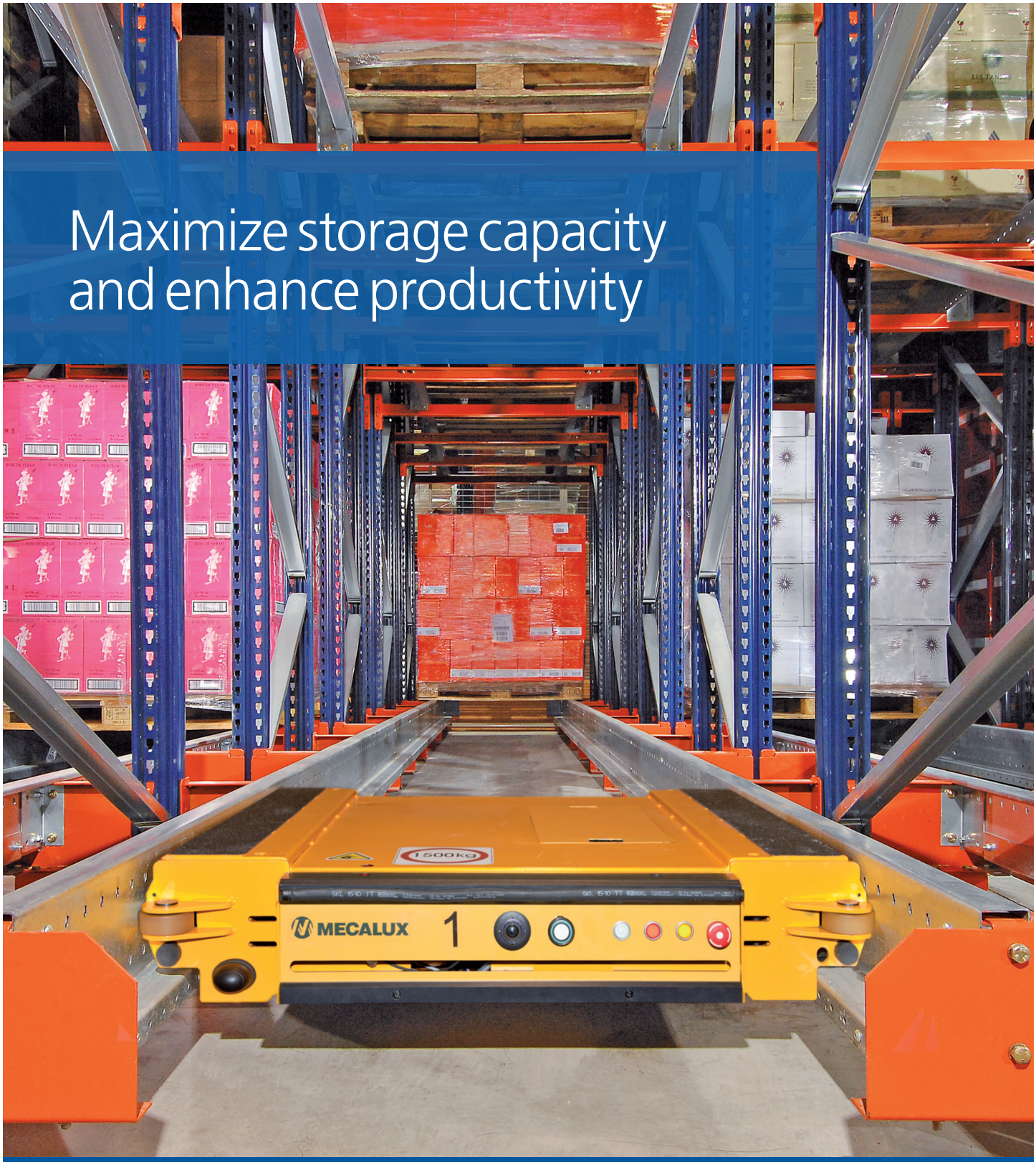
Maximize storage capacity and enhance productivity



Pallet Shuttle High-Density Storage System

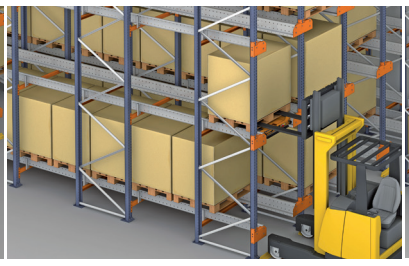
Engineered and manufactured by:

Interlake MECALUX

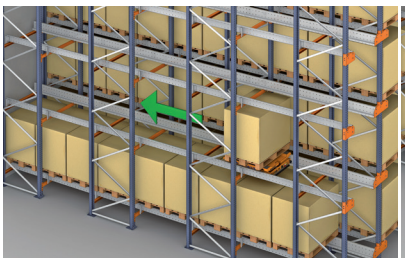
Pallet Shuttle is a high-density semi-automated storage system that uses a motorized shuttle to carry pallets inside storage lanes. The carts move along rails inside the lanes, following orders, of one or various movements, that are sent by the operator using a Wi-Fi tablet.

Operation

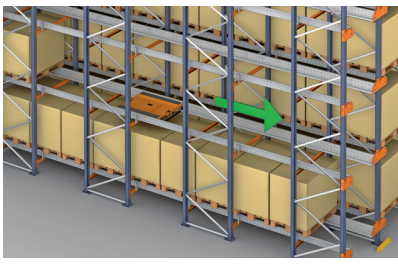
The forklift places the motorized Pallet Shuttle in the lane where work needs to be carried out.



Forklifts are used to position pallets one by one in the level entrance, resting them on the load-bearing beams. The forklift never enters the rack.



The shuttle lifts the pallet slightly, and moves it horizontally until it reaches the deepest available location, where it deposits the pallet.



The shuttle returns to the channel entrance in order to repeat the movement with the next pallet. This sequence is repeated as many times as necessary until the corresponding lane is full.

When unloading pallets, the shuttle performs the same operation as described, but in reverse.

Pallet Shuttle **Features**

Interlake Mecalux's Pallet Shuttle system incorporates the latest technological innovations, offering optimum performance.

High travel speed:
300ft/min when empty
and 150ft/min carrying a load.

Lithium batteries that provide battery life of up to 12 hours working at full capacity.

Sensors that detect and measure different types of pallets.

Battery compartment with quick connections that eliminate the need for cables and speed up battery changes so that the work cycle is not interrupted.

The **shuttle platform** is designed to carry pallets that are bowed, or with deflection of up to a maximum of 1 inch.

Compatible with Easy WMS, Interlake Mecalux's warehouse management software, which helps eliminate errors.

The Wi-Fi control tablet has a very **intuitive user interface, which is easy to use.**

Includes advanced **safety features**, such as:

- **Locking system** that increases the contact between the Pallet Shuttle and the forks of the lift truck.

- **Positioning camera** to help the operator center the shuttle between the rails (optional).

- **A safety scanner on either side of the Pallet Shuttle** to control rail access more safely while the shuttle is in operation (optional).

Load capacity of up to **3,300**lbs

Lifting time of **2**Seconds

Transport speed of **300ft**/min without load

Lithium **batteries** with great battery life

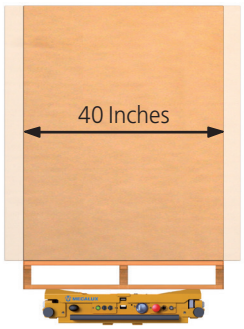
Adaptable to temperatures from **-22** to **112** °F

Up to **18** carts controlled with the same device

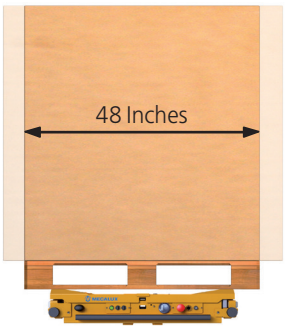
Adaptable for pallets of different sizes

A single shuttle can work with pallets of different types

Multiple **models** available for your pallet requirements



48 x 40 - GMA Pallet



40 x 48 Pallet

Locking system to ensure the shuttle is held in place on the forklift

Fast access to the battery compartment

Intuitive user interface

View using the positioning camera

Independent movement along the tracks

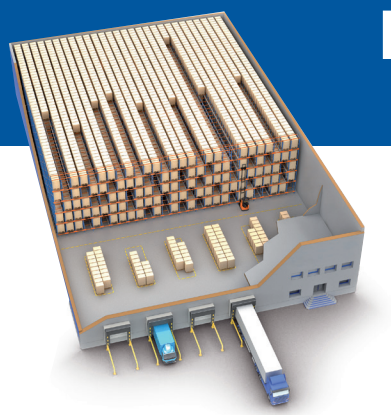
Pilot lights showing operating mode

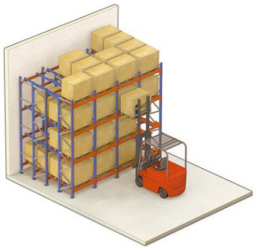
Main Features

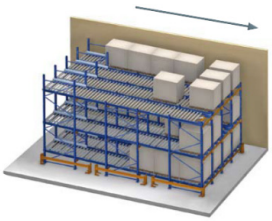
(1) **Pallet Selector:**	Select the type of pallet you want to handle
(2) **LIFO/FIFO configuration:**	Select the desired load management strategy
(3) **Change P&D station:**	Select which side of the structure you want to work on (in FIFO mode)
(4) **Locking system:**	Activate the additional locking system that increases contact between the Pallet Shuttle and the lifting forks of the truck
(5) **Grouping:**	Group pallets at the beginning (LIFO) or end (FIFO) of the channel
(6) **Continuous loading/unloading:**	Load/unload a channel without stopping
(7) **Partial unload:**	Select the number of pallets to extract
(8) **Location signal:**	Activate the audible and light signals to identify the location of the selected shuttle
(9) **Inventory:**	Count the number of pallets stored in the channel
(10) **User management:**	Password protected user settings
(11) **Operating mode selector:**	Automatic or manual (for maintenance tasks)
(12) **Shuttle indicator:**	Shows the number of shuttles in operation and their status

See the Pallet Shuttle in action and find success stories at **www.interlakemecalux.com/ps**

High-Density Systems Comparison







	Drive-In/Through	Push Back	Pallet Flow	Pallet Shuttle
APPLICATIONS	LIFO / FIFO	LIFO	FIFO	LIFO / FIFO
PALLETS IN DEPTH	Up to 8	Up to 6	Up to 20	Up to 40
SELECTIVITY-SKUS	SKUs by bays	SKUs by lanes	SKUs by lanes	SKUs by lanes
SAFETY	Forklift enters	Forklift not entering	Forklift not entering	Forklift not entering
SAFETY OF LOAD	No product contact	No product contact	Product contact	No product contact
COST PER PALLET	$	$$	$$$	$$

Do you need to increase productivity in your warehouse while reducing operating costs at the same time?

The Pallet Shuttle system provides the ideal solution for:

- Companies with a high volume of pallets per SKU and high loading and unloading activity.
- Warehouses with a high density of products.
- Cold storage.
- Buffers for temporary storage or picked orders.
- Seasonal product warehouses, or warehouses whose inflow and outflow depend on the season.
- In general, any warehouse that already uses a high-density system and where access to a greater number of references, storage of a greater number of pallets in depth, or an increase in the number of incoming and outgoing movements is required.

Ask for more information or an obligation-free quote
at **www.interlakemecalux.com** or call **1.800.444.4532**

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