

**INCREASED CAPACITY,  
SPEED, AND EFFICIENCY  
AT YOUR FINGERTIPS**

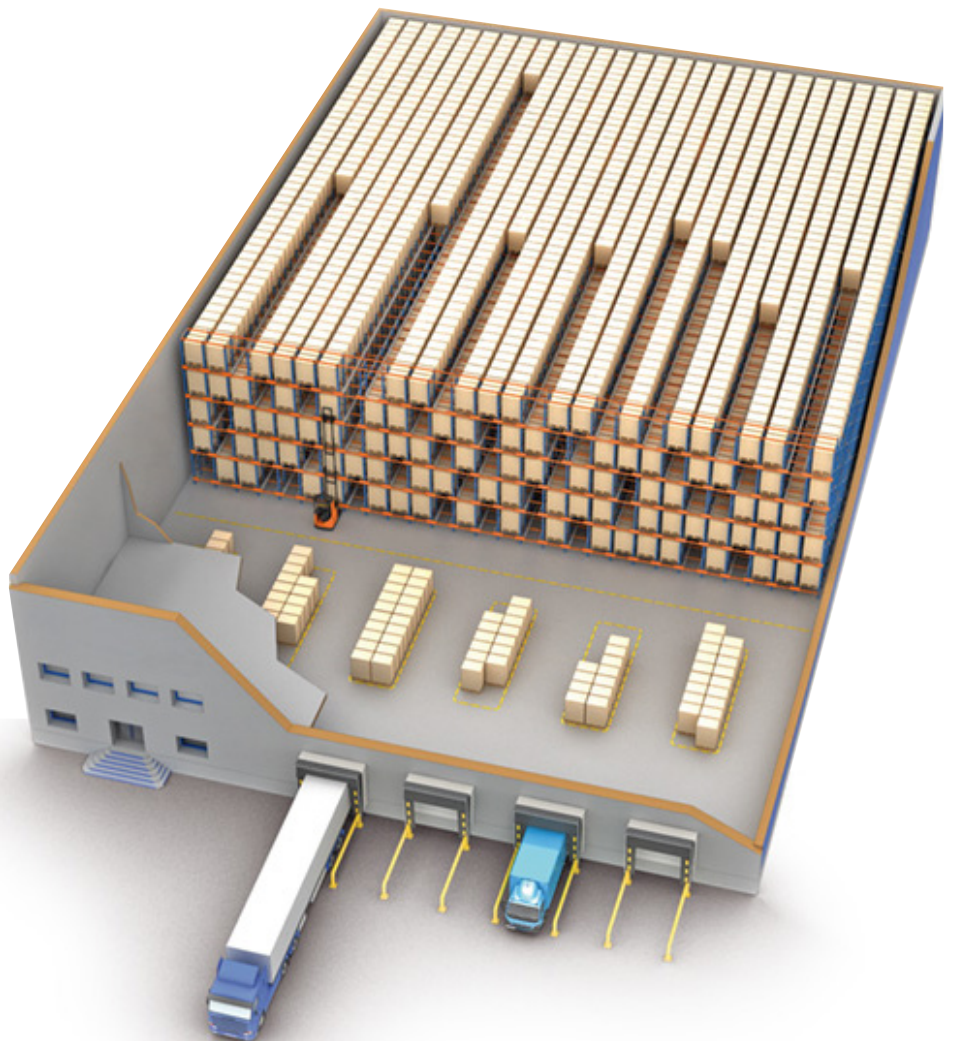
**PALLET SHUTTLE COMPACT STORAGE SYSTEM**





## ADVANTAGES

- » **BETTER STORAGE CAPACITY**  
Only one handling lane is needed to serve storage channels.
- » **INCREASED PRODUCTIVITY**  
The flow of goods in and out of the warehouse is augmented.
- » **COST SAVINGS**  
Highly profitable, thanks to the decrease in operating expenses.
- » **STORE MORE SKUs**  
Items can be grouped by channels instead of by entire lanes.
- » **REDUCE DAMAGE AND ACCIDENTS**  
Since forklifts do not drive into the lanes, the risk of accidents is almost non-existent. So, the metal structures remain undamaged.
- » **DEEPER PALLET STORAGE**  
Storage channels can be more than 130' in depth.
- » **IMPROVED PERFORMANCE**  
Handling times are shortened, so operators can carry out more movements in less time.







A compact semi-automated storage system that uses a motorized shuttle to handle pallets inside the storage channels. The shuttles move along rails inside the channels, following orders sent to them via a Wi-Fi control tablet.

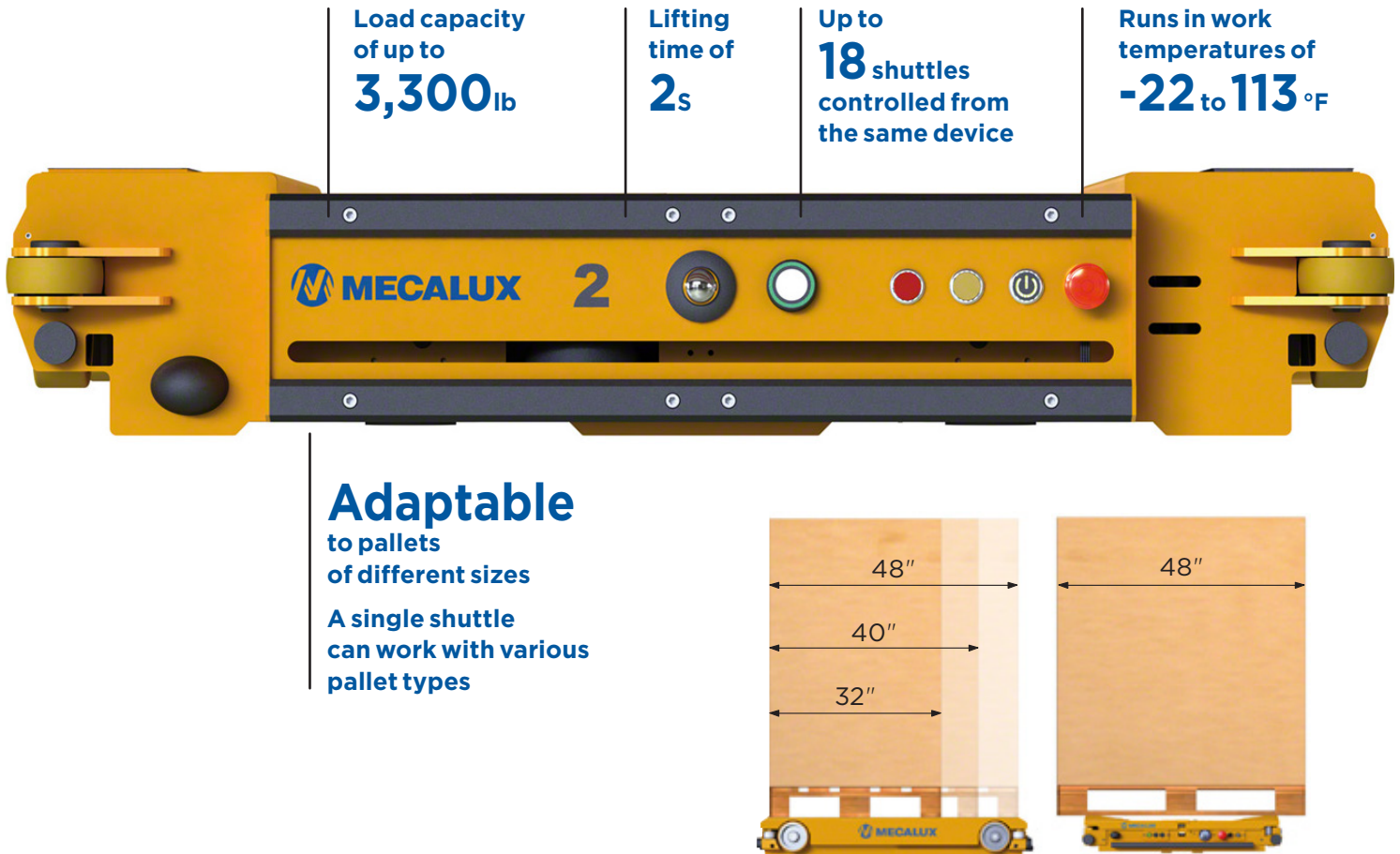
## OPERATION



- 1.** A forklift **places the motorized Pallet Shuttle in the channel** where work needs to be carried out.
- 2.** Forklifts position the **pallets one by one in the level's entry point**, resting them on the load-bearing beams. The forklift never enters the rack.
- 3.** The shuttle lifts the pallet slightly and **moves it horizontally until it reaches the deepest available location**, where it deposits the pallet.
- 4.** The **shuttle returns** to the channel entrance to repeat the movement with the next pallet. This sequence is repeated as many times as necessary, until the corresponding channel is full.

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

## PALLET SHUTTLE FEATURES



### Interlake Mecalux's Pallet Shuttle system includes the latest in technological innovations, offering optimum performance

• **High-speed** handling at 295'/min when unloaded and 148'/min when loaded.

• **Lithium batteries** provide up to 10 hours of battery life, working at full capacity.

• **Sensors** designed to detect and handle pallets of all types.

• **Battery compartment** with quick, cable-free connections speeds up battery changes so workflow cycles run uninterrupted.

• The **shuttle platform** is designed to carry pallets that are bowed or have deformations of up to 1" max.

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

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

Includes advanced safety devices, such as:

- » **Locking system**, to increase the contact between the Pallet Shuttle and the forklift's blades.
- » **Positioning camera**, to help the operator center the shuttle between the rails (optional).
- » **Bilateral safety scanners** on either side of the Pallet Shuttle to provide safer rail access while the shuttle is in operation (optional).





Better viewing through a positioning camera



Quick-access battery compartment



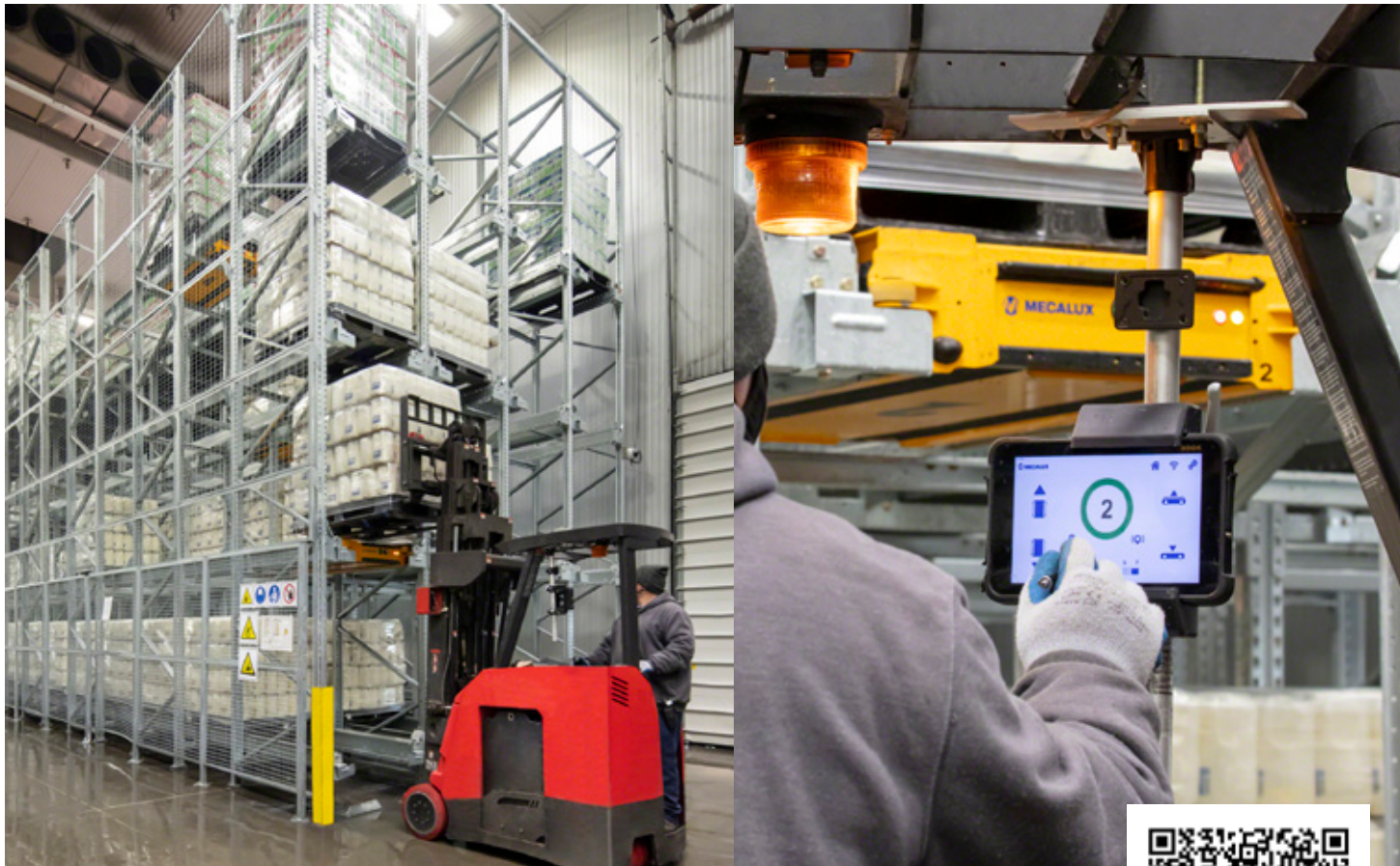
User-friendly interface

## MAIN FUNCTIONALITIES



1	Pallet selector	Select the type of pallet to be handled.
2	LIFO/FIFO configuration	Select the load management strategy.
3	Change work aisle	Select which side of the structure you want to work from (in FIFO mode).
4	Locking system	Activate the supplementary locking system, increasing the contact between the Pallet Shuttle and the forklift's blades.
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 be extracted.
8	Location signal	Activate light and sound signals, identifying the location of the chosen shuttle.
9	Inventory	Count the number of pallets stored in a channel.
10	User management	Manage shuttle user permissions for authorized personnel.
11	Operating mode selector	Automatic or manual (for maintenance tasks).
12	Shuttle indicator	View the number of active shuttles and their status.
13	Tiltmeter	Detect if a shuttle is incorrectly positioned in a channel.
14	Position camera (optional)	Facilitate the insertion of the Pallet Shuttle on the rails.

See the Pallet Shuttle in action at [interlakemecalux.com/ps](http://interlakemecalux.com/ps)



[SEE THE COMPLETE CASE STUDY](#)



## SUCCESS STORY PRODUCERS DAIRY

Dairy products supplier and distributor Producers Dairy installed a semi-automated Pallet Shuttle for its 50,000 ft<sup>2</sup> cooler at its plant in Fresno, California. The Pallet Shuttle replaced the company's outdated and inoperable pallet racking system. By installing the Pallet Shuttle system, the firm was able to double its capacity and prepare 300 orders per day.

Faced with an aging four-level pallet racking system, the company knew it had to find a new system for its 50,000 ft<sup>2</sup> cooler at its Fresno facility. *"It had been failing for some time and we were looking for a solution to replace the existing racking system,"* said Mike Ramirez, Producers Dairy Plant Manager.

That's when Interlake Mecalux and partner PacVS stepped in. *"They came and proposed the Interlake Mecalux Pallet Shuttle system and we agreed that it would work for our operations,"* Ramirez says.

The high-density, semi-automated system uses a shuttle powered by an electric motor that runs along rails inside a storage channel. This solution considerably lowers operating times and allows operators to group the facility's 150 active

SKUs by channels rather than by entire lanes. **The Pallet Shuttle also solved Producers Dairy's capacity issues** by enabling the plant to house 370 pallets in its cooler, more than double the 180 pallets it was previously storing.

The Pallet Shuttle system also offered more benefits. For one, it **reduced the company's utility costs** by eliminating the air compressors used in the firm's old pneumatic racking system. The Pallet Shuttle, on the other hand, uses easy-access lithium batteries that have fast connections.

**The Pallet Shuttle system also allows the facility to build up inventory** and preload trailers ahead of time in the event that the plant has to take a line down for maintenance or other reasons. *"If we have unforeseen problems that shut the line down, we're able to build inventory in this racking system in an organized manner to be able to support a shutdown in production,"* Ramirez says. *"Before we weren't able to do that and that's probably the biggest positive step forward."*







# DO YOU NEED MORE WAREHOUSE PRODUCTIVITY AND FEWER OPERATING COSTS?

## THE PALLET SHUTTLE SYSTEM IS THE BEST SOLUTION FOR:

**Companies with a high volume of pallets** per item and high loading and unloading activity.

**Warehouses with high-density** product storage.

**Cold** stores.

**Buffers for temporary storage** or picked orders.

**Seasonal product** warehouses, or seasonal inputs and outputs.

In general, **any warehouse already run by a high-density** system and any installation needing more access to its SKUs, to deep store more pallets, or to increase the number of incoming and outgoing movements.

**Ask for more information or an obligation-free quote at [interlakemecalux.com](http://interlakemecalux.com) or call 1-877-632-2589**



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