



Case study: Verlhac Logistique

Automated operations at full tilt

Country: France

3PL (third-party logistics) provider Verlhac Logistique optimises its logistics operations with the automated Pallet Shuttle system with stacker crane.



THE CHALLENGE

- » Build an automated warehouse in a small space with limited height.
- » Instal a solution to streamline the movement of goods.
- » Implement software capable of monitoring stock in real time.

THE SOLUTIONS

- » Automated Pallet Shuttle system with stacker crane.
- » Easy WMS software from Mecalux.
- » Racks set up in a 2-metre-deep pit.

THE BENEFITS

- » Constant flow of goods, thanks to automation.
- » Space optimisation: 2,240 pallets in 900 m².
- » Control over the status of 140 SKUs in real time.

How can you leverage the height of a warehouse with specific size constraints? 3PL operator Verlhac Logistique solved this logistics conundrum with the help of Mecalux. The company has opened a new, 1,024 m² facility in Cahors, southern France, where it manages the products of one of its main

customers: ANL Packaging, a manufacturer of thermoformed containers.

During the assembly phase, while Verlhac Logistique sought a storage solution that would best meet its logistics needs, it came up against an obstacle: the warehouse

is very close to an airfield, so the building could be no taller than 10 metres. Mecalux came up with a response that was both resourceful and efficient: "It set up the automated storage and retrieval system (AS/RS) in a 2-metre-deep pit to obtain the capacity we needed, in compliance with the build-

Verlhac Logistique is a 3PL operator that provides storage and transport services for businesses from all industrial sectors. The company owns 33,800 m² of warehousing space in France where it manages its customers' products.

- » Founded in: **1957**
- » No. of warehouses: **5**
- » Total storage space: **33,800 m²**
- » No. of employees: **70**



ing's height regulation," says Michel Verlhac, President of Verlhac Logistique.

In recent years, ANL Packaging has ramped up its production pace. Verlhac explains that the new AS/RS had to support that growth: "We had to accommodate a larger number of products in the smallest space possible." Besides optimising space, Verlhac Logistique also needed a solution that would guarantee a minimum number of movements per hour. This is because it had to be prepared to "cope with the arrival of more products and the dispatch of a growing number of orders," says Verlhac.

Automated Pallet Shuttle: agility in an optimised space

"In starting up a new AS/RS, our priority was to absorb ANL Packaging's increased production, as well as speed up the entry and exit of goods at the right time," says Verlhac.

The two companies literally work side by side. ANL Packaging has also just opened a new warehouse right next to the Verlhac Logistique building so that the two facilities can coordinate and streamline distri-

bution of the goods. For both projects, the companies chose the same Mecalux storage system: the automated Pallet Shuttle.

"Mecalux suggested the automated Pallet Shuttle system with stacker crane because this solution takes advantage of the available surface area without losing speed in the flow of goods," says Verlhac.

This system is completely automated. The motorised shuttle is responsible for moving the pallets inside the storage channels with full autonomy. In the storage aisle, a twin-mast stacker crane executes movements from the AS/RS entry and exit points to any storage channel, following instructions from the Mecalux software at every turn.

The AS/RS, equipped with two 10-metre-high blocks of racking, provides capacity for 2,240 pallets in approximately 900 m². Likewise, the locations have been customised to store two different pallet sizes, each weighing up to 1,000 kg.

"We're pleased with the automated Pallet Shuttle system. Thanks to this fully automated solution, we've gained in speed,

accuracy and safety when storing our customers' products," says Verlhac.

More efficient management

Verlhac Logistique has also installed the Easy WMS warehouse management system (WMS) from Mecalux to control inventory in the AS/RS in real time. "We wanted a program that would monitor product movements as well as orchestrate operations performed in our AS/RS," says Verlhac.

The Mecalux software identifies each product the minute it arrives at the AS/RS. To do so, the pallet checkpoint installed at the start of the conveyor line automatically reads each pallet's barcode label. There, operators verify that the pallet corresponds to the one previously indicated by the ERP (enterprise resource planning) system, and its dimensions and conditions are checked.

Then, to assign the pallet a location on the racks, Easy WMS makes a series of calculations, taking into account the number of empty slots, the SKU and the demand level. This is where automation comes into play: the conveyors, the stacker crane, and the motorised shuttle are charged with automatically moving the pallet to the corresponding location.

"Operations in the AS/RS have to run perfectly, so it was essential for the WMS to communicate smoothly with our ERP system," says Verlhac. The two systems have been integrated to exchange information and data on the status of the warehouse and business needs, such as items scheduled to arrive and orders placed by customers that need to be shipped as soon as possible.



Michel Verlhac
President, Verlhac Logistique

"The automated Pallet Shuttle system is the solution we needed to optimise space and boost our storage capacity. Plus, by fully automating operations, we now have continuous inflows and outflows."



Once the pallets are stored, the WMS knows the status of all the goods in real time and shares this information with Verlhac Logistique's ERP system. When dispatching the pallets, the ERP system again notifies the Mecalux software of the pallets it needs in order for the WMS to manage the picking list for those pallets based on the transport route of the requested order.

Personalized to a T

Verlhac Logistique has benefited from a made-to-measure warehousing solution by Mecalux. The 3PL provider now has the storage capacity it needs, a process carried out in line with local regulations for the area in which the building is located.

The company has leveraged the advantages of automation and compact storage to modernise its logistics operations and enhance its customer service. Through automation, Verlhac Logistique now has a flexible supply chain ready to take on future challenges.

Technical data

Storage capacity	2,240 pallets
Pallet sizes	800/1,000 x 1,200 mm
Max. pallet weight	1,000 kg
Rack height	10 m
Rack length	32 m

