

Capacity expanded with multiple storage solutions

Warehousing and order fulfilment company Capacity's new facility incorporates a variety of storage systems to enhance productivity in a short time frame.

Country: **USA** | Sector: **transport & logistics providers**



CHALLENGES

- **Increase storage volume** to deal with space constraints and improve process flow.
- **Prevent operational inefficiencies** due to lack of space.
- **Equip warehouse with storage** under tight deadlines.

SOLUTIONS

- **Pallet racking.**
- **Push-back racking.**
- **Live pallet racking.**
- **Carton live storage.**

BENEFITS

- **Maximised efficiency and productivity** of logistics operations.
- **Increased storage capacity** in an optimised space.
- **Cost-effective solution** in a short period of time.

Capacity and its team of highly responsive engineers, client service professionals and warehouse associates offer engineered solutions for comprehensive order fulfilment and warehousing. Founded in 1999 by Jeff Kaiden and Thom Campbell, the company's vision entails innovation in fulfilment technology and customer satisfaction.

- » **Founded in: 1999**
- » **International presence: warehouses in Indiana, Los Angeles, New Jersey, the UK, and an office in India.**

A comprehensive order fulfilment and warehousing provider such as Capacity requires nimble fulfilment operations, including product storage and order processing, packaging and distribution.

With five buildings already bursting at the seams due to the company's incessant growth, Capacity decided to expand its operations by constructing another 2.8-hectare facility in North Brunswick, New Jersey, with the goal of increasing operational efficiency and productivity.

To do this, Capacity needed to outfit its new building with storage systems that would adapt well to the various types of loads it stores to cater to its wide variety of clients. And it needed the building to be operational in a short period of time to handle its ever-expanding client base. Capacity also needed to optimise its surface area to increase storage capacity while maintaining operational agility.

The company selected Interlake Mecalux and its partner ABCO Systems to help design and install racking systems that would meet the business's needs and be installed within Capacity's tight timeline.

"Interlake Mecalux and ABCO are great companies to work with. Everything comes on time, and it's all made well," says Paul Jakobovic, Industrial Engineer at Capacity. "Their diverse racking offerings have helped us store more in our facility than we thought possible."

More than 11,000 m² of pallet racking

Pallet racks are the most universal system for direct access to each pallet, and the direct access offered by Capacity's pallet racking is essential for the company to handle the frenetic pace of operations. The warehouse features approximately 11,000 m² of racking. The pallet racking's strength, versatility and adaptability to any type of load are some of its key features. Capacity's racks stand 11.6 m tall with 20 different elevations/configurations.

Overall, the facility can accommodate approximately 17,500, 1,016 mm x 1,219 mm GMA pallets at two or three pallets per level. This allows the racking to store a wide variety of products of different sizes and weights. To make the most of Capacity's storage space, Mecalux minimised the size of the racking aisles.

Complementary storage systems

The warehouse also contains a mix of push-back racking, live pallet racking and carton live storage. The push-back racking is 6.7 m tall and made up of a number of channels arranged with a slight incline. The front portion of the racking is lower so that when an operator removes a pallet, the pallets behind the initial one move forward



"Thanks to the different storage systems installed, we've increased our storage capacity in a reduced space. We can now house more products than we thought possible."

Paul Jakobovic
Industrial Engineer, Capacity

by gravity to the front position. Operators have access to the different SKUs in the same aisle, so travel in the warehouse is minimal. The racking operates based on the LIFO (last in, first out) method, in which the first pallet introduced into the system is the last to leave.

Based on the same gravity flow principle, but operating under the FIFO (first in, first out) system, the live pallet racking is 11 m high and contains a set of slightly sloped channels that make it easy for the pallets to properly move from the highest part (entry point) to the lowest part (exit point).

Lastly, Interlake Mecalux installed carton live storage on some of the lower levels of the pallet racking. This allows for efficient order picking, as the boxes containing the merchandise that operators need to retrieve are always available. Like the pallet live racking, carton live storage enables perfect product turnover using the FIFO system: operators deposit the goods at one end, and they slide safely and gradually via gravity to the picking

aisle. Carton live storage also separates picking and stocking tasks into different aisles, thereby avoiding interference between the two operations.

Future-ready warehouse

By installing several storage systems, Interlake Mecalux has provided Capacity with higher storage density. Consequently, the company can now prepare more orders — as well as larger orders for its premier customers.

Capacity was able to raise its productivity while maintaining the same footprint. This reduces the need to take on an additional facility, all with the peace of mind that the Interlake Mecalux racks were well-built to stand the test of time.

Interlake Mecalux and its partner ABCO worked closely together to deliver the racking on tight timelines and provide fast, efficient installation that now enables Capacity to cope with its pace of growth.