

## Case study: Sportisimo

Optimised warehouse with pallet racking and picking shelves

Country: Czechia



**Czech sporting goods distributor Sportisimo has equipped its warehouse in Rudná, Czechia, with pallet racks and picking shelves. The storage solutions, designed and installed by Mecalux, provide storage for more than 35,000 pallets and enhance the order picking process.**

### About Sportisimo

Sportisimo is a Czech company dedicated to the sale of sporting goods: clothing, footwear, equipment and accessories. It began doing business in 1999, and over the years, the business has strengthened its position in Czechia, where it currently has over 100 points of sale. In recent years, it has expanded its activity to other countries, opening shops in Slovakia, Romania and Poland.

Sportisimo has sold its merchandise online since 2008 and was the first sporting goods chain in Czechia to offer this type of service. Sportisimo contacted Mecalux to outfit its warehouse in Rudná (near Prague) with one primary objective: to optimise the order preparation process — both in its physical shops and for online users — with the aim of adapting to omnichannel retail.



### Increased process efficiency

The space allocated for storage has been divided into five zones. The company's logistics efficiency has improved with the installation of two storage systems that were adapted to Sportisimo's goods of different sizes and turnovers: pallet racks and M3 light duty shelving.

In addition to their ability to store all types of products, both solutions streamline or-

der preparation for both bricks-and-mortar shops and online customers.

### Four zones with pallet racking

The main area in the Sportisimo warehouse is made up of four physically separated sections. Each has been equipped with 26 aisles of pallet racks. The 78-metre-long by 8.5-metre-tall pallet racking offers total storage capacity for 35,879

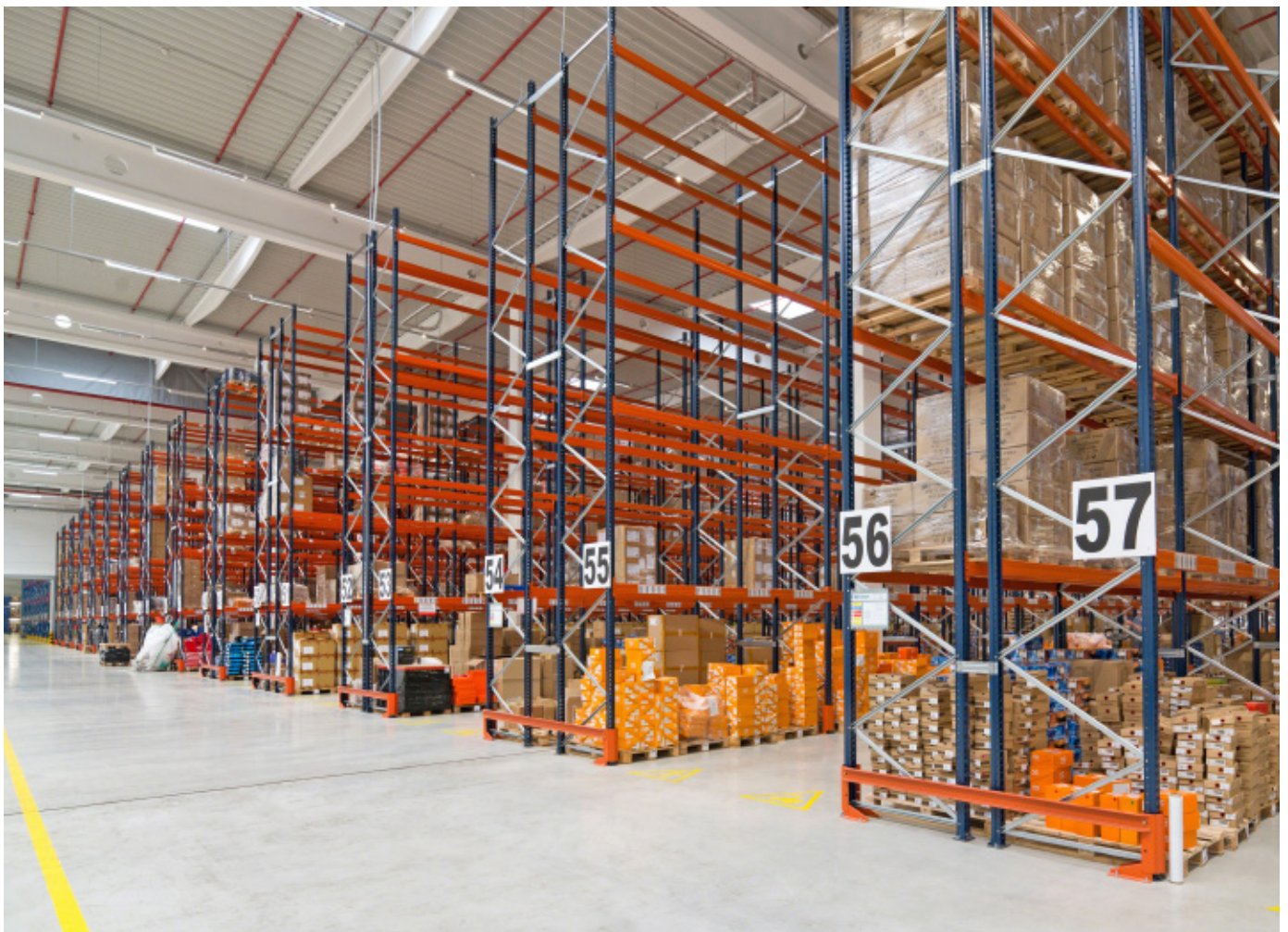
pallets measuring 800 x 1,200 mm and with a maximum unit weight of 500 kg.

Mesh panels have been placed on a large portion of the lower levels of the pallet racks to make it possible to prepare orders with smaller SKUs. Meanwhile, the working aisles have been tailored to the size of the handling equipment used. This way, the operators can move about the warehouse safely using both forklifts and order pickers.

Likewise, Mecalux has installed under-passes that run crosswise through the racking to optimise operator travel.

The first level of these passageways is protected with electro-welded wire mesh panels to guarantee load stability and prevent materials from falling. The racks have been fitted with protectors that absorb potential impacts from forklifts and preserve the integrity of the structure.

The warehouse has loading docks on both sides of the racking, which increases effectiveness in flows and speeds up the goods receipt, loading and dispatch processes.







### Order picking area: M3 light duty shelving

In an adjacent facility, Mecalux has set up a four-storey mezzanine where orders are picked from M3 light duty shelving. This structure leverages the height of the building and quadruples the useful storage area.

Each floor features 38 rows of picking shelves with four levels and measures 2 m tall with a maximum length of 13.5 m. Each storage shelf can support up to 120 kg.

The operators walk up and down the aisles using RF scanners to prepare orders. The orders are then moved to the lower level via conveyors where they are sorted, packaged and sent to customers or to physical shops.





### Advantages for Sportisimo

- **Optimal storage capacity:** the pallet racks enable Sportisimo to store 35,879 pallets.
- **Efficient picking:** the storage solutions ensure that order preparation is highly productive.
- **Agility in operations:** the direct access to the loads improves management of SKUs and expedites order picking.



### Technical data

#### Pallet racking

Storage capacity	35,879 pallets
Pallet size	800 x 1,200 mm
Max. weight per pallet	500 kg
Racking height	8.5 m

#### M3 light duty shelving

Mesh height	2 m
Number of storage levels	4
Maximum weight at mesh level	120 kg

