

Case Study

MANGO: inconsoWMS and inconsoDOM

Highly automated warehouse management



Customer profile

Today, over 30 years after the opening of the first MANGO store in the heart of Barcelona, the distribution network of the worldwide fashion company includes over 2,200 stores in 110 countries. As one of the largest exporters in the Spanish textiles industry, MANGO currently has over 15,000 employees.

Requirements

In 2015, MANGO started the implementation of a system landscape that met the brand's rigorous business plan. In light of this, MANGO completely automated goods receiving, storage and picking in the distribution center based on the warehouse management system inconsoWMS. Included are: The differentiated goods control of hanging and flat packed goods in the warehouse areas that cover approximately 180,000 m² in Lliçà d'Amunt.

The solution

inconsoWMS takes over the fully automated control of goods, including along the integrated shuttle system or the 25m high stacker cranes in the high bay warehouse. The highly automated intralogistics system connects all logistics areas, from goods receiving to the warehouse and sorting through to packing and shipping.

The company's continual growth makes this necessary. Every day, the shops send their orders to the logistics center, where they are processed just in time. The orders that arrive in the course of the day must be processed within a few hours so they can be delivered to the customer as soon as possible. The narrow time slots that have a delivery time of only a few hours demand that logistics functions flawlessly.

The arriving goods are recorded in goods receiving fully automatically and assigned to their respective warehouse areas. Value added services (VAS) are processed in special "multifunction" areas, where employees are guided through the individual work steps according to their instructions. Orders are processed effectively via MDTs (mobile data terminals) or ergonomic dialogs in which the system can intervene depending on the order situation. In doing so, MANGO quickly prepares the goods for shipping.

Another highlight is the automated planning of orders, since the order planning processes in the GI area are the logistic heart of the system, where the shipments are generated from the shipments' requirement notifications. In the system, these processes are triggered by the distributed order management system inconsoDOM. It provides a central view of the center's stocks and functions as the interface bridge between the MANGO's ERP system and the warehouse management system inconsoWMS.

During order preparation, inconsoDOM takes over highly configurable order planning. This makes it possible for the preparations in the logistics center to be adapted to the different preparation and shipping types as well as variables of the ERP system. inconsoDOM also carries out inspections to ensure that the shipping of customer orders fulfills business requirements.

Thanks to the high level of automation, MANGO can prepare a package for shipping within 120 minutes. But what happens if intervention is necessary quickly? In the shipping area, a shipment can be rescheduled on short notice until it has been loaded. By default, these procedures need to be executed via so-called hold requests that usually do not allow for much leeway in making changes. In contrast to this, MANGO has adapted to the specific volatilities of the fashion and textiles industry with inconso's solution.

Since the first go-live phase, a local support team has been supporting the complex processes on-site in Lliçà d'Amunt. Nearly at the same time, inconso founded a Spanish subsidiary in 2015 and was able to provide local contacts in the immediate vicinity for assistance after the successful go-live. The experts are not only available for new requirements, training or consulting, but also

preventative measures. MANGO can be notified of incipient problems before they actually occur. Therefore, MANGO is perfectly prepared for the increasing complexity of its international supply strategy.

At a glance

Customer

- MANGO

Project goals

- Transparent goods control in all warehouse areas;
- Performance increase in shipping processing

Products and solutions

- inconsoWMS X (Warehouse Management System)
- inconsoSCE (Supply Chain Execution System)

Main benefit for the customer

- Fully automated goods control, incl. automated order planning
- Shipping preparation while taking fast shipping into account
- High flexibility in controlling hanging and flat packed goods

“In their respective areas, such as goods receiving, warehouse management, distribution and shipping, the teams' foci did not waver, even during the individual project phases for hanging and flat packed goods. The strengths of each team could be applied to key aspects.”

Jorge Corbello Simon,
CIO at MANGO