

Case study: Cosgra

A WMS that modernizes the entire supply chain

Country: Spain



In its logistics center in Girona (Spain), Cosgra stores in excess of 10,000 different SKUs of electric motors, gearboxes, drum motors and mechanical seals. Mecalux's Easy WMS warehouse management software is a system that controls all stock and avoids any potential error in storage and order preparation tasks. The WMS not only oversees, coordinates and manages the movements, processes and operations of the warehouse, but also ensures a high level customer service.

Rotating equipment solutions

Headquartered in Girona (Spain), Cosgra distributes electric motors, gearboxes, drum motors and mechanical seals for automotive and electronics companies, plus machinery manufacturers.

Since it was founded in 1980, it has been a pioneer and an innovative trendsetter in the sector, as well as being oriented towards the international market. Today, it

is one of the largest companies in the industry within southern Europe: it markets its products in over 20 countries in Europe, Africa and Latin America.

Shared engine-spare parts warehouse

Cosgra's priority is to supply its customers promptly. So, the warehouse's site is crucial to ensuring quick delivery times. *"It is located in Crespià (Girona), in a stra-*

tegic point next to the motorway between Barcelona and the French border. It is very close to the Barcelona, Girona and Perpignan airports," explained Jordi Company, Cosgra's production manager.

Not only is the warehouse's position crucial to speeding up order distribution, but also to sound management of all operations and goods. The company has a catalog with over 10,000 SKUs, all of different

sizes and volumes. Divided into two areas (one for engines and bulky products, and another for spare parts and smaller products), this warehouse feature makes it easier for in-house operators to work.

All flows managed

Cosgra had a particular interest in revamping its warehouse operations to become more flexible and cope better with continuous market changes. To achieve this, it needed a warehouse management system (WMS). *“Before, we used an ERP that ran all the company’s activities, including part of the logistics. Only the ERP managed the in-warehouse stock: we knew what we received, what we had stored and what we shipped out. However, we couldn’t keep track of product characteristics or their exact location,”* Jordi Company said.

Cosgra has deployed the Mecalux Easy WMS warehouse management system to simplify and optimize operations and, all in all, make the most of its distribution center.



Cosgra products are barcoded, which helps them be located and fully tracked in real time



Jordi Company Production Manager at Cosgra

“We are very satisfied with the warehouse management system from Mecalux. Obviously, we had to get up to speed. Plus, it took time to learn to use the WMS, count our inventory and register it all in the system. But, in the end we didn’t care because the benefits were obvious and our operators are a flexible bunch of people.”



“We decided to work with Mecalux because of its brand image in the sector and its expertise in deploying warehouse management systems,” the production manager added.

The Easy WMS benefits Cosgra most because of its flexibility and scalability, adapting to any change faced by the business. This might involve introducing new technologies in any of its processes, increasing sales, etc.

Before the Easy WMS was up and running, the different merchandise each had a descriptive product leaflet (with parts, characteristics, weight, functions, etc.), which was hardly practical.

Instead, items are now tagged with a barcode that operators can scan using RF devices. *“Including barcodes was the real breakthrough for our logistics. Each arti-*

cle has an ID number, which means we can locate it and fully trace its whereabouts. With that code, we can find any spare part within all the products supplied in the last five years,” Jordi Company pointed out.

Through the Mecalux software, the company also gets real-time information on the status of its inventory, where it comes from, where it is located and where it is going.

This translates into greater efficiency in the operators’ work, since they find the products customers request quicker.

The Mecalux WMS has a hand in all Cosgra warehouse operations:

Receipt of goods

At the dockside, operators are tasked with identifying and sorting all incoming products individually: engines on the one hand and spare parts on the other.



Good communication between the WMS, ERP and operators is essential to prevent errors. The ERP sends an entry order to Easy WMS specifying which items are about to arrive at the warehouse.

Once received, the WMS tells the operators to inspect the products. Thus, it is possible to check that the goods specified by the ERP have arrived and, simultaneously, enter the products into the system and assign them a location.

Easy WMS also handles the returns. Occasionally, for whatever reason, customers may wish to return some of the products they purchased. In this situation, the same process applies, although Easy WMS decides what to do with each specific product: send it to the storage area, to the kit assembly area, to be repaired, etc.

Storage tasks

Once the engines have been separated from the spare parts, Easy WMS assigns a location to each product based on its characteristics and size. For example, bulky, heavier products are placed in the lower levels of the racks.

The operators use their radiofrequency handsets to identify the products and Easy WMS shows where to deposit them. The bulky goods zone uses pallet trucks to move products, while the spare parts zone uses hand carts.

Order preparation

More than 250 orders are put together every day, making order prep one of Cosgra's core operations. Following Easy WMS's instructions, operators roam the warehouse area assigned to them, locating the prod-

ucts that comprise each order. Operators stay either in the bulky product zone or in the spare parts area to avoid interference and potential mistakes. Once all the items have been collected, they are transferred to the assembly area. Here, the engines are mounted and personalized to meet each customer's specific needs.

A more advanced supply chain

Mecalux's Easy WMS represents a big step forward for Cosgra. Through this WMS, the company has streamlined the management of over 10,000 SKUs, from their arrival at the warehouse to their dispatch, guaranteeing total traceability.

The software was installed without stoppages in Cosgra's customer service. *"I admit it was pretty tough,"* Company said, *"because we have lots of SKUs and had to*



take an inventory of our warehouse. Even though it involved a lot of hard work, everything rolled along and our customers were unaffected by this process. And, we started distributing orders very quickly." The WMS has become a tool, an ally for operators, because it guides them at every turn

and makes their tasks easier. "This tool motivates our team and has helped them get the job done with ease. So, I'm pleased to say that Easy WMS has been well received," the production manager said. The warehouse is a strategic facility for this business, housing all the products required by its cus-

tomers and organizing engine assembly and their subsequent distribution.

The management system optimizes and streamlines all processes as far as possible, resulting in greater efficiency and customer satisfaction.

Easy WMS ensures high speeds and accuracy in order picking, as well as improved lead times. Operators know which products to collect and in what amount



Advantages for Cosgra

- **Control over 10,000 SKUs:** Easy WMS identifies products from the moment they arrive at the warehouse and assigns them a location. As a result, it always knows the real-time status of the stock.
- **Accuracy and agility:** Easy WMS's supervision over all operations is central to ensuring that operators can carry out storage and order picking with no mistakes.
- **Increased productivity:** the warehouse is highly productive, being able to prepare +250 orders per day.



Technical data

No. of stored SKUs	+10,000
No. of orders prepared daily	250