

Case Study

# Order Picking and Consolidation





# Case at a glance

## **How we took our customer from task to solution**

Tescoma produces its own brand of kitchen utensils sold throughout 130 countries worldwide. In 1996, Tescoma was managing various sized orders for both wholesale and e-commerce from an 11,000m<sup>2</sup> logistics hub in Italy. To optimize order fulfillment, Kardex created a custom solution for Tescoma. This included five Kardex Horizontal Carousel, one Kardex Shuttle and one Kardex Miniload-in-a-Box.\*

\* formerly Kardex Compact Buffer

# Pick and put away optimization

## Customer and task

Based in Italy, Tescoma's 11,000 m<sup>2</sup> logistics center manages an inventory of approximately 2,600 SKUs. Tescoma commissioned Kardex to optimize its processes for both order preparation and execution. They wanted to provide the e-commerce and retail channels with faster delivery capabilities. This would ultimately result in added value for Tescoma customers.

Tescoma manages various order types, ranging from one to 150 order lines, with approximately 15,500 orders annually.

By integrating automated solutions, Kardex has helped Tescoma optimizing the whole order fulfillment processes.

## Solution

Orders are picked using five Kardex Horizontal Carousels and one Kardex Shuttle. Put-to-light technology ensures the simultaneous management of multiple orders. The Kardex Miniload-in-a-Box with automated conveyor connection allows the consolidation and sequencing of orders via three exit lines.

The solution enables users to speed up order picking. The Kardex Miniload-in-a-Box consolidates orders, reorganizes floor space and is used as a buffer to manage approximately 500 boxes awaiting shipment.

The Kardex system is incorporated into Tescoma's ERP system and the Warehouse Management System (WMS) uses an integrated process to handle both picking and temporary storage. During the shipping process the order bins are delivered to the operator position through three exit lines.

**Optimize**  
picking and  
refilling

**Manage**  
picked orders

**Maximize**  
space



## Scope of delivery



5 Kardex Horizontal Carousels with over 250 storage locations  
1 Kardex Shuttle with pick-to-light technology  
1 Kardex Miniload-in-a-Box for order consolidation with 1 entry point and 3 exit lines on independent stations for a total of 589 bins



Kardex Power Pick System for inventory management  
Kardex JMIF to manage bins with picked items



2 put-to-light picking stations for picking up to 16 orders  
1 transport system with an automatic conveyor