



# FGP - AUTOMATED WAREHOUSE SYSTEM

FGP - With Vertimag, the automated warehouse system, innovation translates into increased productivity

Improved management of space, faster and more efficient picking and order preparation, continuous traceability of all operations: this is how the automated warehouse system [Vertimag](#) has improved FGP's logistics and taken advantage of the incentives provided for in the government's Industry 4.0 plan.

FGP is a company located in Verona which manufactures specific orthopedic products for the rehabilitation and recovery of motor functions. FGP is an expression of completely Italian know-how. Over the years it has always adapted to new technologies making its products from start to finish, that is, from design to manufacturing. To do this, FGP always puts research first, continuously comparing and contrasting with modern orthopedic science and the most advanced physiotherapy practices.

## CUSTOMER

FGP

## WHERE

Verona

## SOLUTIONS

Vertical lift module Vertimag  
Warehouse Management System



## Technology and innovation at the heart of its business processes

One characteristic that distinguishes FGP is the constant improvement of processes and products so as to always guarantee cutting-edge solutions for the health and well-being of its customers. With this in mind, the Verona-based company has decided to undertake significant investments in technological innovation applied to all business sectors. First of all, the warehouse, a critical area for both production and shipment.

## Vertimag automation: increased productivity and optimized use of space

To improve the logistics system, FGP chose to focus on automation and relied on the experience of Ferretto to identify the most appropriate solution to manage components, semi-finished and finished products. Thus Ferretto designed and installed 2 Vertimag vertical storage systems each equipped with 2 opposite bays. This solution made it possible to increase performance and productivity and to optimize the available space: making the most of the height, the systems guarantee a useful storage area of 257 m<sup>2</sup> with a footprint of just 38 m<sup>2</sup>.



## A double bay for fast and accurate picking

With the goal of making picking operations more efficient, both Vertimag systems were equipped with one external bay in which the picking is managed by an anthropomorphic robot, and a single internal bay, where operators carry out the picking. The picking and placing operations are made easier and faster thanks to an alphanumeric LED bar and a laser pointer: during order preparation, these devices indicate the exact product to be picked, thus significantly improving accuracy.

## Objectives

- Increase the level of technologies applied to logistics.
- Reorganize and optimize the storage space for components, semi-finished and finished products.
- Improve the management of components for the production process.
- Optimize inventory control and related inflows and outflows.
- Reduce errors.
- Increase order preparation speed.

## Solution

- 2 Vertimag 84xL300 vertical automatic storage systems with opposite bays.
- Single internal bay for manual picking and placing operations.
- Single external bay with picking and placing operations carried out by an anthropomorphic robot.
- Management software interconnected to the company ERP according to Industry 4.0 standards.

## Value added

- Better management of space, making the most of the height and providing a storage area of 257 m<sup>2</sup> with a footprint of just 38 m<sup>2</sup>
- Technological modernization achieved through the automation of processes
- Greater speed in retrieval of items and order preparation
- Traceability of all operations and inventory thanks to the management software, developed entirely by the Ferretto Spa, which is directly connected to the corporate ERP

## WAREHOUSE IN NUMBERS

No. 2 Vertimag 84xL300 with external bay opposite a single internal bay

Vertical storage system height	5.461mm
External dimensions (D x W)	4.134 mm x 4.755mm
Tray dimensions (D x W)	840 mm x 4.250 mm
Total number of trays	36 per machine
Total storage area	128,52 m <sup>2</sup> per machine
Storage volume	19,28 m <sup>3</sup> per machine
Storage system footprint	19,0 m <sup>2</sup> per machine