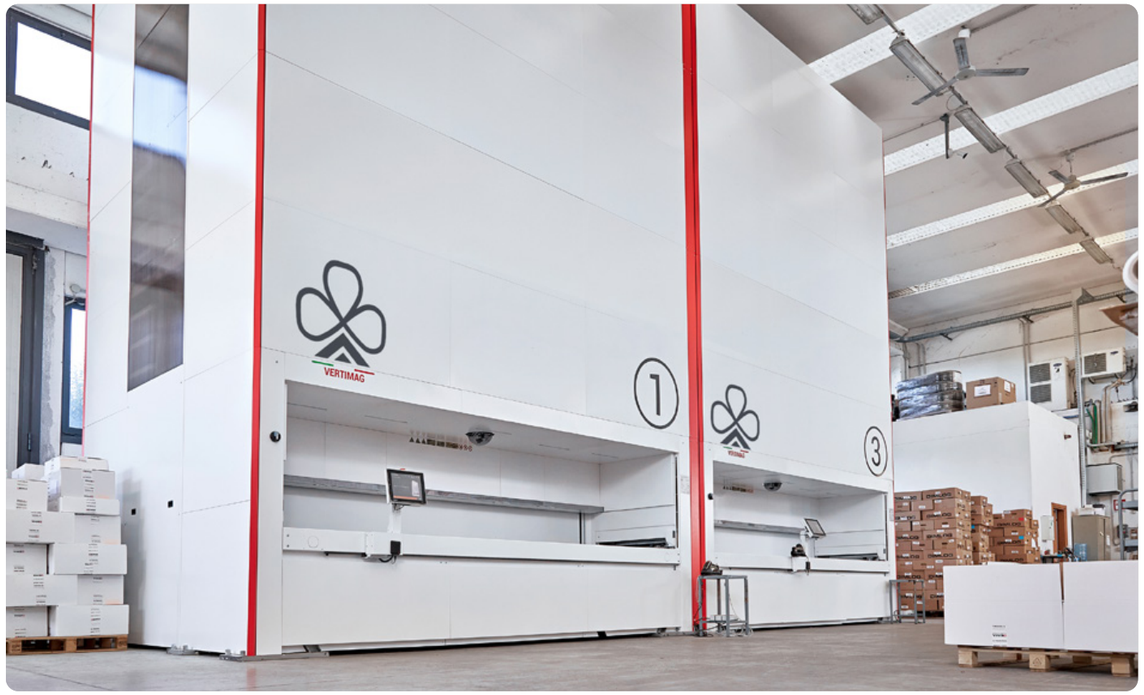
FERRETTO®
STORAGE GOES VERTICAL

VERTICAL STORAGE SYSTEMS

FERRETTO®
STORAGE GOES VERTICAL



Vertical Lift Modules Vertimag

Vertical Lift Modules for bars and plates Steel Tower

Vertical carousels Eurot

Warehouse Management System

Why a Vertimag vertical lift module?

- Up to 90% of space saved
- Quicker order preparation
- An ergonomic solution offering absolute safety
- Higher productivity
- Improved stock management
- Safe storage of goods

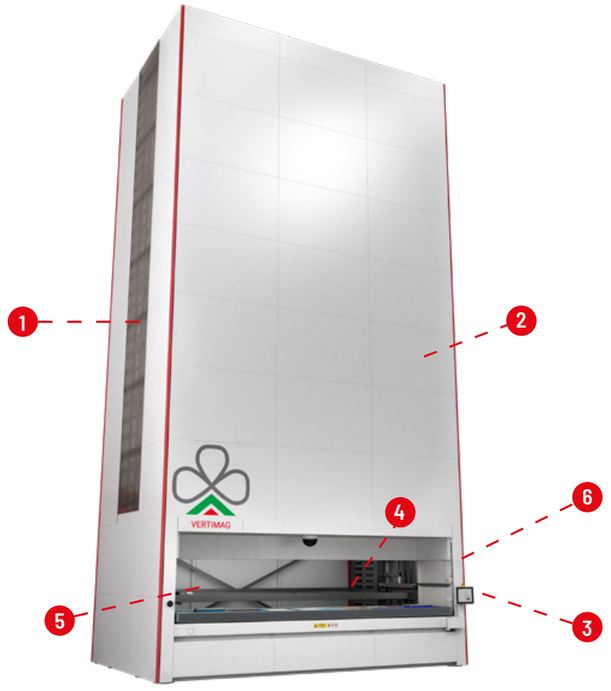
THEY CAN BE TAILORED AND CONFIGURED ACCORDING TO THE NEEDS

Flexibility is the strength of **Vertimag**, one of Ferretto's most successful products for more than 20 years, which can manage small and medium-sized items in any shape and weight, thus meeting the logistics needs of companies in the most different industrial sectors. Vertimag is available in 15 models, each with 4 different tray capacities. This storage solution can be equipped with the Ergo-Tech system, which can manage the same flows as a double bay while always offering perfect ergonomics.

TRADITIONAL STORAGE

STORAGE WITH VERTIMAG

Automatic Vertical Lift Modules Vertimag



Exclusive

- Ergo-Tech picking bay
- 15 models (5 widths and 3 depths - footprint)
- 120 tray combinations
- Possibility of outdoor installation without additional cladding structure
- WMS designed and developed by Ferretto Spa

Technical data

1. High-strength tubular structure
2. High-durability pre-painted sheet paneling
3. Touch Panel screen 12" with sockets for external devices and user-friendly graphics
4. Different picking bays suitable for all needs
5. Check for incoming goods height - Pitch 25mm
6. Safety barriers for the operators

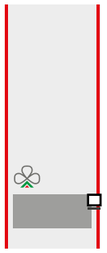
Plus

- Decreased footprint up to 1/10
- Increased productivity up to 7 times*
- Ideal for materials of different types, weight and size
- Elimination of errors
- Storage control
- Reduction of risks and loss of goods
- Ergonomics
- Improved efficiency
- Increased safety for operators

HEIGHT (m)	from 3,2 to 12 (every 200mm)
GROSS CAPACITY MAX (kg)	70.000
MATERIAL HEIGHT MAX (mm)	695
TRAY PAYLOAD FOR THE ENTIRE RANGE (kg)	300 – 550 – 800 – 990
TRAY SIDE HEIGHT (mm)	70 – 95 – 120 – 145 - 170
FLEXIBLE PITCH (mm)	25
PICKING BAYS	Internal Single Bay / Internal Double Bay / Ergo -Tech / External Single Bay / External Double Bay / Extractable Bay

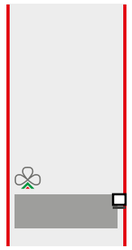
* Data verified and confirmed on a sample basis of historical customers

— XS-BI / XS-BE



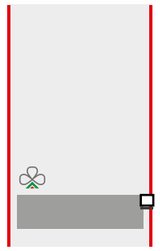
MODEL	TRAY WIDTH (mm)	TRAY DEPTH (mm)	TRAY SIDE HEIGHT (mm)	TRAY NET PAYLOAD (kg)	FOOTPRINT INTERNAL BAY (WxD mm)	FOOTPRINT EXTERNAL BAY (WxD mm)
65XS	1.950	650	70 ÷ 120	300 – 550 800 – 990	2.452 x 2.521	2.452 x 3.347
84XS	1.950	840	70 ÷ 120	300 – 550 800 – 990	2.452 x 3.091	2.452 x 4.107
103XS	1.950	1.030	95 ÷ 145	300 – 550 800 – 990	2.452 x 3.661	2.452 x 4.867

— S-BI / S-BE



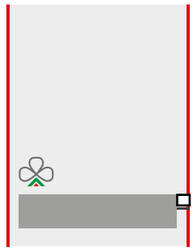
MODEL	TRAY WIDTH (mm)	TRAY DEPTH (mm)	TRAY SIDE HEIGHT (mm)	TRAY NET PAYLOAD (kg)	FOOTPRINT INTERNAL BAY (WxD mm)	FOOTPRINT EXTERNAL BAY (WxD mm)
65S	2.450	650	70 ÷ 120	300 – 550 800 – 990	2.952 x 2.521	2.952 x 3.347
84S	2.450	840	70 ÷ 120	300 – 550 800 – 990	2.952 x 3.091	2.952 x 4.107
103S	2.450	1.030	95 ÷ 145	300 – 550 800 – 990	2.952 x 3.661	2.952 x 4.867

— M-BI / M-BE



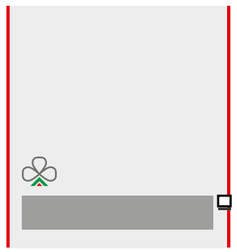
MODEL	TRAY WIDTH (mm)	TRAY DEPTH (mm)	TRAY SIDE HEIGHT (mm)	TRAY NET PAYLOAD (kg)	FOOTPRINT INTERNAL BAY (WxD mm)	FOOTPRINT EXTERNAL BAY (WxD mm)
65M	3.050	650	70 ÷ 120	300 – 550 800 – 990	3.552 x 2.521	3.552 x 3.347
84M	3.050	840	70 ÷ 120	300 – 550 800 – 990	3.552 x 3.091	3.552 x 4.107
103M	3.050	1.030	95 ÷ 145	300 – 550 800 – 990	3.552 x 3.661	3.552 x 4.867

— L-BI / L-BE



MODEL	TRAY WIDTH (mm)	TRAY DEPTH (mm)	TRAY SIDE HEIGHT (mm)	TRAY NET PAYLOAD (kg)	FOOTPRINT INTERNAL BAY (WxD mm)	FOOTPRINT EXTERNAL BAY (WxD mm)
65L	3.650	650	70 ÷ 145	300 – 550 800 – 990	4.152 x 2.521	4.152 x 3.347
84L	3.650	840	70 ÷ 145	300 – 550 800 – 990	4.152 x 3.091	4.152 x 4.107
103L	3.650	1.030	95 ÷ 170	300 – 550 800 – 990	4.152 x 3.661	4.152 x 4.867

— XL-BI / XL-BE



MODEL	TRAY WIDTH (mm)	TRAY DEPTH (mm)	TRAY SIDE HEIGHT (mm)	TRAY NET PAYLOAD (kg)	FOOTPRINT INTERNAL BAY (WxD mm)	FOOTPRINT EXTERNAL BAY (WxD mm)
65XL	4.250	650	95 ÷ 145	300 – 550 800 – 990	4.752 x 2.521	4.752 x 3.347
84XL	4.250	840	95 ÷ 145	300 – 550 800 – 990	4.752 x 3.091	4.752 x 4.107
103XL	4.250	1.030	95 ÷ 170	300 – 550 800 – 990	4.752 x 3.661	4.752 x 4.867

Our wide range of bays

During the design stage, Ferretto supports the customer with professional advice in the choice of the type of bay that most suits their needs.

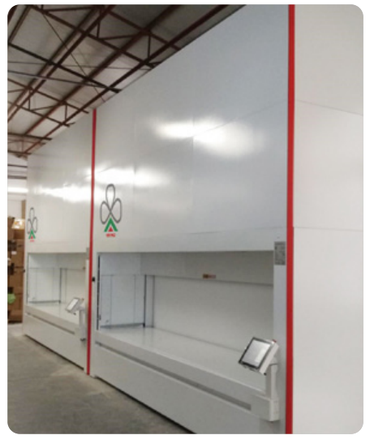
The **Single Internal Bay (BIS)** is recommended when the priority is guaranteeing ergonomic and safe working conditions to the operators when handling the products in the trays. It can be easily transformed into a **Double Internal Bay (BID)** to improve warehouse performance.

The **Ergo-Tech Bay (BIG)**, instead, is the best solution for very deep trays, when ergonomic working conditions and the speed of a double bay are required but there are space issues.

The **Single External Bay (BES)** or the **Double External Bay (BED)** is the right choice when it comes to safely handling goods by means of external equipment or to handling heavy and bulky goods that must be accessed without hindrances.

The **Extractable Bay** allows the operator to manually extract the trays from the machine and handle heavy materials in total safety. It occupies the same space as an internal bay.

ERGO-TECH BAY



INTERNAL SINGLE BAY

INTERNAL DOUBLE BAY

EXTERNAL SINGLE BAY

EXTERNAL DOUBLE BAY

EXTRACTABLE BAY

How can a Vertimag lift module be organized?

The trays can be equipped with dividers and separators that can be chosen according to the needs and added/removed at any moment, thus ensuring maximum flexibility.

- **Plastic boxes**
- **Tray slots**
- **Kit clips and flat dividers**
- **Clip kits and grooved dividers**
- **Flat dividers**
- **Cardboard boxes**

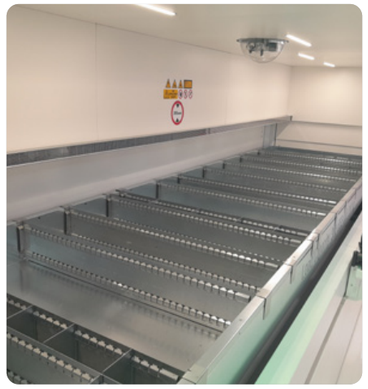
ORDER AND PRECISION IN YOUR WAREHOUSE

The many accessories available make it possible to handle items in various shapes, sizes and weights in a more orderly and efficient way, speeding up order preparation and reducing errors.

PLASTIC BOXES

TRAY SLOTS

KIT CLIPS AND FLAT DIVIDERS



CLIP KITS AND GROOVED DIVIDERS

FLAT DIVIDERS

CARDBOARD BOXES

Vertimag and integrated technology

When it comes to integrating different technologies, Vertimag represents a state-of-the-art product and ensures flawless interaction with the company's ERP system and the most innovative technological solutions such as:

- **Anthropomorphic robots**
- **Put to Light systems**
- **Jib cranes**
- **Conveyor belts and roller units**
- **Weight handling/zero-setting devices**

ANTHROPOMORPHIC ROBOTS

PUT TO LIGHT SYSTEMS

JIB CRANES

CONVEYOR BELTS AND ROLLER UNITS

WEIGHT HANDLING/ZERO-SETTING DEVICES

Many accessories for a more efficient warehouse

Ferretto's solutions can boast high efficiency and productivity also thanks to the numerous accessories that have been designed and manufactured to meet the picking and placing needs of each individual customer.

- Laser Pointer
- Alphanumeric LED bar
- Barcode/QR Code reader
- Sliding console
- Shutter door
- Counting scale
- Trolley for tray extraction
- Put & Go – Order preparation cart

LASER POINTER

ALPHANUMERIC LED BAR

BARCODE/QR CODE READER

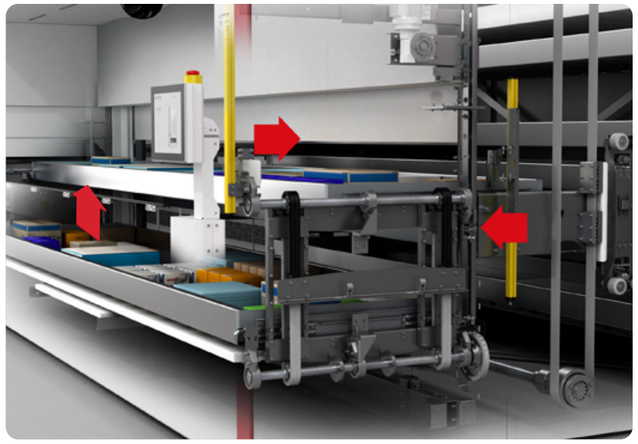
SLIDING CONSOLE

SHUTTER DOOR

COUNTING SCALE

TROLLEY FOR TRAY EXTRACTION

PUT & GO – ORDER PREPARATION CART



EXCLUSIVE ERGO-TECH SYSTEM

Thanks to its operating principle, the Ergo-Tech dual-level picking bay manages the same flows as a double bay while offering more flexibility as to the material to be stored. Unlike other systems available on the market, it does not have, for example, the product height limitations that can be found in a traditional dual-level bay.

INSULATED SELF-SUPPORTING SOLUTION FOR OUTDOOR APPLICATIONS

REINFORCED EARTHQUAKE-RESISTANT STRUCTURE

FIRE - FIGHTING SYSTEM (AVAILABLE ON REQUEST)

ELECTROSTATIC DISCHARGE SYSTEM

Why an Eurot vertical carousel?

Space and time optimization

Remote access to and consultation of records

Traceability of materials and operations

Safe storage of goods

Specifications

1. Steel structure
2. Tray rotation carousel
3. Picking bay
4. Operator interface
5. Electrical cabinet
6. Shelf configuration differentiated by unit load
7. Work counter

Features

- Optimisation of space and working times
- Traceability of materials and operations
- Remote archive access and consultation
- Protection of goods

Vertical carousels Eurot

Automatic vertical carousel for storage and picking

Eurot is an automatic storage system with rotating shelves; it is the ideal solution when the available space is limited and the ceiling height does not exceed 4 m, the items to be stored are light and have uniform size and weight, and the material can be handled safely even without lifting equipment.

The rotating shelves always follow the shortest route while guaranteeing maximum picking and placing speed. Thanks to its versatility, Eurot is the ideal automatic storage system for both offices and manufacturing facilities.

Technical specifications

USE	OFFICE		INDUSTRY	
MODEL	5400	5500	70-415	70-615
WIDTH (mm)	2.740	3.190	3.364	
DEPTH (mm)	1.103		1.315	1.715
HEIGHT (mm)	From 2.330	to 3.770	From 2.780 to 6.560	From 2.870 to6.530
SHELF WIDTH (mm)	2.340	2.790	2.850	
MAX CAPACITY (kg)	2.800		7.000	
MAX SHELF CAPACITY (kg)	130		300	
SHELF DEPTH (mm)	365		415	615

Rotating filing system with standing ring binders and documents

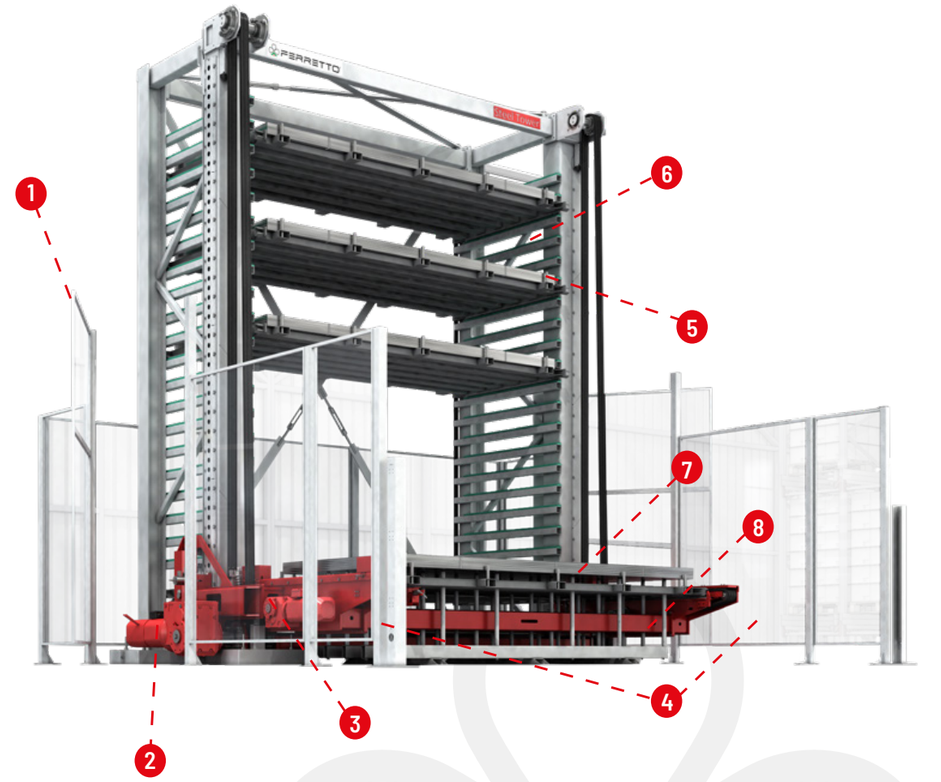
Temperature-controlled rotating storage systems (Hospital Sector)

Rotating storage systems for integrated circuit components

Rotating storage systems for manufacturing facilities (footwear industry)

Why a Steel Tower vertical lift module for bars and plates?

- More space saving in the warehouse
- Reduced risks for operators
- Storage monitoring
- Improved efficiency
- Fewer errors
- Automatic stacking and separation of metal sheets on/from the trays



Specifications

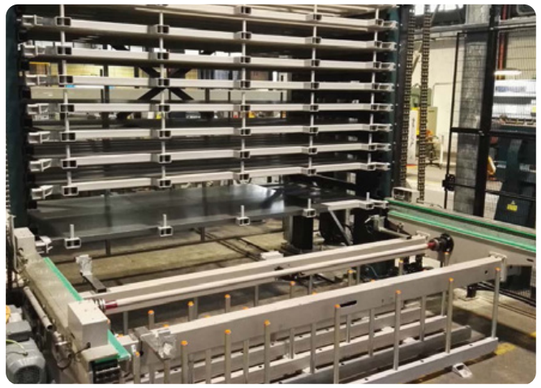
1. Access door
2. Lift motor
3. Tray drive motor
4. Safety barriers
5. Trays
6. Shelves
7. Elevator
8. Support frame for metal sheets

Vertical Lift Modules for bars and plates Steel Tower

Automatic vertical system for the storage and picking of bars, section bars, plates and metal sheets.

Steel Tower is a high-density automatic storage system with single tower (MM models) or double tower (MB models) modules for bars, section bars, plates and metal sheets.

Material loading and unloading operations are performed by means of a lift. A special frame is provided in order to allow the material to be stacked on and removed from the trays. All operations, including maintenance, are performed in complete safety thanks to the mechanical structure, the sensors and the safety devices.



Steel Tower vertical lift module for sheet metal (steel industry)

UL detail - for bars and section bars

UL detail - for packs of metal sheets

Technical specifications

MODEL	MMS/MBS300	MMS/MBS4000	MMHS/ MBHS3000	MMHS/ MBHS4000	MBMB6000
UL	Plates, metal sheets, slabs	Plates, metal sheets, slabs	Plates, metal sheets, slabs	Plates, metal sheets, slabs	Bars and profiles
MAX HEIGHT (mm)	5.075	5.475	7.880	7.880	9.880
MAX NUMBER OF LEVEL PER TOWER (n)	20	20	32	32	25
UL MAX SIZE (mm)	3.048 x 1.524	4.064 x 1.524	3.045 x 1.524	4.064 x 1.524	6.260 x 720*
UL MAX WEIGHT (kg)	3.000	3.000	3.000	3.000	3.000
UL MAX HEIGHT (mm)	90	90	90	90	300
PITCH BETWEEN LEVELS (mm)	190	210	210	210	360
PICKING DEVICE	Dragging	Dragging	Dragging	Dragging	Dragging

* available space inside the tray

Automated storage system for metal sheets stacked on trays (mechanical sector)

Automated storage system for metal sheets on trays

Warehouse Management System

The EjLog Warehouse Management System designed by Ferretto can be seamlessly integrated with the customer's ERP.

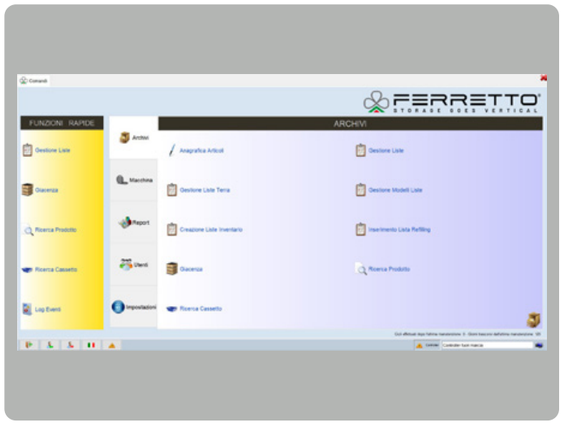
Thanks to its intuitive graphic layout and user-friendly interface, EjLog is the ideal software for managing all types of automatic storage solutions, traditional racking systems as well as the storage areas at ground level.

EjLog enables real-time warehouse management through a regular computer interface on PC or radio frequency terminals, in the case of traditional storage systems and storage areas at ground level, and at the same time allows remote monitoring and intervention.

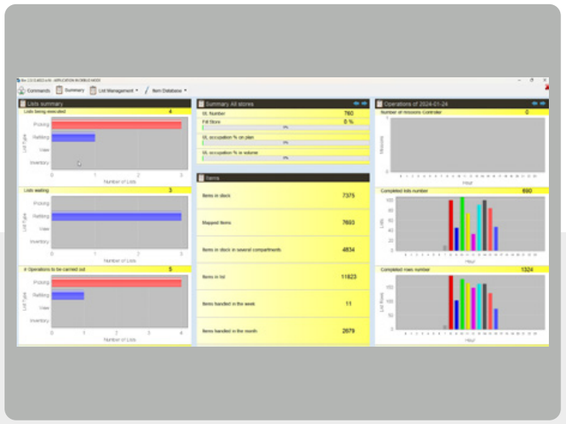
Its "open" architecture facilitates dialogue with the company's ERP, ensuring increased productivity and space optimization through correct data management.

- **Goods and stock management and control**
- **Optimization of space and flow management**
- **Increased efficiency**
- **Fewer errors**
- **Preventive maintenance**
- **Remote control**
- **Simultaneous management of all storage and handling systems**

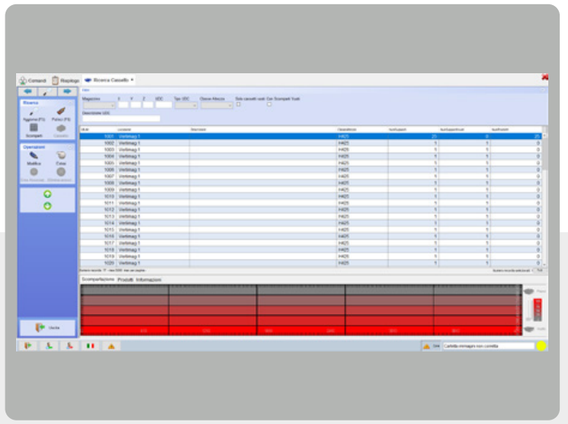
Login page



Home page



Summary of warehouse statistics



Tray search page

Main functions of EjLog for the management of automatic storage systems and storage areas at ground level:

1. Identification of inbound products
2. Storage within the storage system
3. Consultation of data concerning the products stored in the system
4. Retrieval of goods/products from the system
5. List execution with optimized logic
6. Connection to company host
7. User management and authorization for the available functions
8. Reports

Service Desk

Service Desk is a detailed reporting system which Ferretto offers to its customers for better management of Vertimag storage systems. Through a web portal, customers can access all data related to their machines in real time, for example:

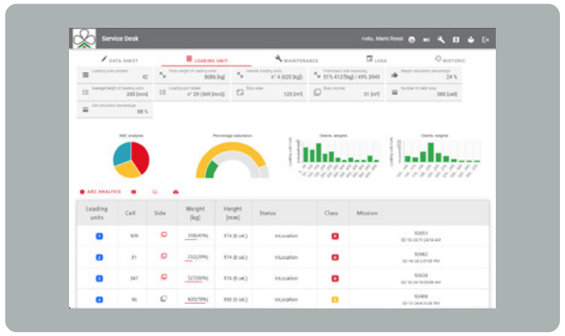
- **Data of the storage systems (in the case of more than one system distributed in different company premises)**
- **Diagnostic data (alarms, errors)**
- **Mission log**
- **Storage system technical sheet**
- **Statistics on the use of trays**
- **Maintenance**

Better system control

Statistic data and reports in real time

Preventive maintenance

Number of missions carried out



Detail of trays

Our customers

FERRETTO®
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Any sector, any application

AGRICULTURAL AND EARTH-MOVING MACHINERY

TREEMME MERLO GROUP
AGRICOLA CANAVESANA
RECMAC
DURI' AGRISERVICE
CIMA S.P.A.
RIMA S.P.A.
EUROCAB

AVIONICS AND DEFENCE

LEONARDO
EUROPEA MICROFUSIONI AEROSPAZIALI S.P.A.
PIAGGIO AERO INDUSTRIES
VITROCISET

BUILDING CONSTRUCTION

BMP
WIENERBERGER
CORRADI E GHISOLFI S.R.L.

CHEMICAL AND PHARMACEUTICAL

CARGILL PECTINE ITALY S.R.L.
JGL D.D. JADRAN GALENSKI LABORATORIJ DD
B.KOLORMAKEUP & SKINCARE S.P.A.
IGENA S.R.L.
HYGIEN TECH S.R.L.
GUARNIMED
CENTO FIORI
BOHERINGER
FABBRICA ITALIANA SINTETICI
COPAN
ROCHE DIAGNOSTIC

ELECTRONICS

ELECTROLUX
SIEMENS
SPEA
NORD ELETTRONICA
XPRES

AUTOMOTIVE

DENSO
MARELLI MOTORI
MERCEDES BENZ
VOLKSWAGEN AG
CNH INDUSTRIAL S.P.A.
SMAT NORD
KG KARTING S.A.S.
SIMPRO - SISTEMI INTEGRATI E AUTOMAZIONE PER L'INDUSTRIA AUTOMOBILISTICA E FERROVIARIA

BIKE

BRN
F.S.A. FULL SPEED AHEAD
BEMMEX
DUCATI MOTOR HOLDING

CERAMIC

CERAMICHE ATLAS CONCORDE S.P.A.
CERAMICHE REFIN S.P.A.GRUPPO CONCORDE S.P.A.

COSMETICS

DELLE PIANE
GOTTARDO
GOTHA COSMETICS
TIRELLI
ATELIER FRAGRANZE MILANO

FOOD & BEVERAGE

CANDIA
CARREFOUR
SANMARTIN
BIRRIFICIO BALADIN
CANTINE PRODUTTORI VALDOBBIADENE
DOLCIARIA GADESCHI
ITALIANA CONFETTI
ACQUA MINERALE SAN BENEDETTO S.P.A.
INDUSTRIA SALUMI SIMONINI S.P.A.
ZUCCATO F.LLI S.R.L.
FRATELLI IBBA
OLEIFICIO FRATELLI RUATA
DRINK INTERNATIONAL

FOOTWEAR

CALZATURIFICIO ZAMBERLAN S.R.L.
CALZATURIFICIO NERI
FENDI DIV. CALZATURE
RENE CAOVILLA
CALZATURIFICIO NERI
GIANVITO ROSSI (EX GRR)
FALC

HYDRAULIC

NEVE RUBINETTERIE
RUBINETTERIE SAN MARCO
ACQUA BREVETTI
GESSI
IDEAL STANDARD
RUBINETTERIA GST
RUBINETTERIA TREEMME

NAUTICAL

OSCULATI S.R.L.
ORIZZONTE SISTEMI NAVALI
RIMORCHIATORI NAPOLETANI
REX NAVI

PLASTICS

BTICINO
NEWPLASTIC
PLASTEX

TEXTILES AND CLOTHING

BOTTEGA VENETA
GIANVITO ROSSI
ITEMA
LORO PIANA
MANUFACTURE DE SOULIERS LOUIS VUITTON S.R.L.
MARELLA
MAX MARA
MIROGLIO GROUP
3 C - LAVORAZIONE PELLI S.R.L.

FURNITURE AND FURNISHINGS

POLTRONA FRAU
PELLINI
CRESTANI 2000 S.R.L.
LAM S.P.A.
PIEMME ARREDAMENTI

INDUSTRIAL PLANTS

CIBITEX
KONE INDUSTRIAL
CEFLA SC
MTM HYDRO
CAREL

OLEODYNAMIC

BORGHI IMPIANTI OLEODINAMICI S.P.A.
OLEODINAMICA GAMBINI S.R.L.
OLEODINAMICA GASPARINI S.R.L.
EMPORIO OLEODINAMICO S.R.L.
HYDRONIT

PUBLIC ADMINISTRATION

ISTITUTO POLIGRAFICO ZECCA DI STATO
UNIVERSITÀ DI UDINE
REGIONE FRIULI VENEZIA GIULIA
RFI - RETE FERROVIARIA ITALIANA
SELEX GALILEO S.P.A.
BCC PORDENESE
BCC VICENTINO
CARIFERMO
CORTE APPELLO BARI

HARDWARE/IRONWARE

BOSSONG
C.M.T. UTENSILI
DEWALT
LK
BATTISTI FRANCESCO SNC
MOLEMAB

MECHANICAL

SELMI
BECO
EUROFORK
CENTRO TRASMISSIONI MECCANICHE
FB BALZANELLI
COSTRUZIONI MECCANICHE FERRARI
OMS-OFFICINA-MECCANICA-SESTESE
OMT
DAL LAGO
FADIS
LOMBARDINI KOHLER

PAPER

EUROSTAMPA
TESI 24
SKILLPRESS

STEEL

WEALTH S.R.L.
ESCELSIOR LAMIERATI S.R.L.
AFV ACCIAIERIE BELTRAME S.P.A.
ITALMETAL
SCALA S.P.A.
PEDROTTI NORMALIZZATI

THIRD-PARTY LOGISTICS

DEIMA
ASENDIA

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