# LOGIMAT® VERTICAL LIFT MODULE

The dynamic solution for the storage and picking of small parts.

# LOGIMAT:
# THE ALL-IN-ONE STORAGE
# AND PICKING SOLUTION



The Vertical Lift Module, with its numerous basic functions and unique additional options, not only significantly improves the performance of warehouse processes, but also ensures the ergonomic and safe operation of the warehouse. As an autonomous system or as a module integrated into an automated application – the LOGIMAT is characterized by its universal usability.

## AT A GLANCE: THE LOGIMAT VERTICAL LIFT MODULE

- Highly convenient goods-to-person principle
- Compact design has economic and environmental advantages
- Travel times reduced by more than 70 %
- Compared with static solutions, the Vertical Lift Module requires up to 90 % less warehouse space
- Automated processes and ergonomic design improve performance by over 20 %

# HIGHLIGHTS

The LOGIMAT Vertical Lift Module is a well-rounded and dynamic complete solution



**The LOGIMAT offers numerous basic functions as standard and impresses as a high-performance storage and picking system.**

Thanks to its scalable concept, the scope of functions of the LOGIMAT can be tailored precisely to the individual customer requirements. To complement the standard design, the LogiMat offers numerous options that expand the functions in terms of ergonomics, performance, and flexibility.

## Compact

- Maximum use of the available height
- Visual, automated filling rate display
- Defragmentation and relocalization of the stored trays
- Stock addition sequence with fixed height for highly concentrated storage
- Stock addition sequence with intelligent height optimization (IHO)
- Storage of trays in 25 mm increments

## Safe

- Automated monitoring of the storage bins ensures that the goods to be stored are within the permitted dimensions both horizontally and vertically
- Vertical shaft monitoring for checking possible tray protrusions before the elevator approaches to prevent unintentional access during storage or retrieval
- Predefined access rights to trays and functions
- Programmable logic controller (PLC)

### EXCLUSIVE FEATURES

- **LogiTilt** tilting mechanism of the tray for ergonomic retrieval of goods and reduced reaching depth
- **Touch user interface** with intuitive navigation

- For maximum utilization of the storage space, the **LMB** bin series of sorting accessories is optimized for a tray depth of 800 mm
- Innovative **tray design** with a focus on space and weight optimization

## Robust

- Modular design with standard components
- Low-maintenance system thanks to high-quality components and robust design
- Range of drive options for different requirements
- Elevator with a low-maintenance gear drive

## Ergonomic

- Visual indication of the storage position by a laser pointer
- Continuous confirmation light barrier under the operating opening to optimize picking performance
- Up to four operating openings per Vertical Lift Module in any position
- The height of the tray output can be adapted to the height of the employee

# STANDARD MEETS INDIVIDUALITY

# OPTIMAL USE OF WAREHOUSE SPACE

The LOGIMAT comes in a wide selection of standard model widths and depths.

LOGIMAT offers an extensive range of sorting accessories

The standard trays can be supplemented with items from the range of plastic boxes according to the customer's needs. The SSI SCHAEFER Container Catalog provides a comprehensive overview of the options. Some examples are pictured below:

## Technical Data

| Usable tray dimensions (mm) | A width (mm) incl. paneling | B depth (mm) incl. paneling |
|---|---|---|
| 1,825 x 625 | 2,370 | 2,712 |
| 1,825 x 815 | 2,370 | 3,092 |
| 2,025 x 625 | 2,570 | 2,712 |
| 2,025 x 815 | 2,570 | 3,092 |
| 2,425 x 625 | 2,970 | 2,712 |
| 2,425 x 815 | 2,970 | 3,092 |
| 2,825 x 625 | 3,370 | 2,712 |
| 2,825 x 815 | 3,370 | 3,092 |
| 3,025 x 625 | 3,570 | 2,712 |
| 3,025 x 815 | 3,570 | 3,092 |
| 3,225 x 625 | 3,770 | 2,712 |
| 3,225 x 815 | 3,770 | 3,092 |
| 3,625 x 625 | 4,170 | 2,712 |
| 3,625 x 815 | 4,170 | 3,092 |
| 4,025 x 625 | 4,570 | 2,712 |
| 4,025 x 815 | 4,570 | 3,092 |

**Minimum height:**
2,450 mm

**Maximum height:**
up to 23,850 mm
in 100 mm increments

**C height of operating opening:**
1,950 mm (depending on leveling)

**Tray load capacity:**
up to 700 kg

**Machine load capacity:**
up to 60 tons in standard design (higher load capacity available upon request)

| Tray design with frame and base | Height-adjustable tray in 25 mm increments | A brilliant organizer for every warehouse: Rack boxes (RB) | Cleverly compartmentalized with the classic top seller EUROFIX (EF) | Tray with slats |
|---|---|---|---|---|

25mm

## LMB bin series: individually configurable with separating walls

80 CM

## Standard Paneling Colors

| RAL 5014 (Pigeon blue) | RAL 9010 (Pure white) | RAL 7024 (Graphite grey) | RAL 7035 (Light grey) |
|---|---|---|---|

**Other colors available on request.** Color deviations may occur due to monitor or printer settings.

**LMB bins are optimized for partitioning at a tray depth of 800 mm and can be further compartmentalized with separating walls.**

# UMLIMITED POSSIBILITIES

The LOGIMAT dynamic system is a
future-proof logistical solution

**No Limits to the Installation Possibilities**
With its compact design, the Vertical Lift Module fits into any space and meets any customer requirements, whether it has separate storage and retrieval sides, two-sided storage or retrieval on the floor above, or rising from a basement to extend over two floors, projecting through a ceiling or recessed into the floor.

**Intelligent Installation**
The LOGIMAT can also be attached to the outer façade of the warehouse building, if necessary. An installation like this can minimize the construction costs of expanding the warehouse because only the cut-out for the operating opening needs to be taken into consideration in the existing building wall. In addition, the Vertical Lift Module allows for independent planning of the system height.



**Even Greater Efficiency Thanks to Conveying Systems**
Integrating the LOGIMAT into ergonomically designed conveying systems is an effective measure for realizing efficient material flow within a facility. The conveying system connects the individual warehouse areas or work stations together. This allows the employees to focus entirely on the picking of goods on the LOGIMAT.



**The advantage:**
**Higher productivity, reliable technologies,**
**flexible applications and all components**
**from a single source.**

The Vertical Lift Module's operating opening is located on the „main level" of the warehouse, allowing the Vertical Lift Module itself to be built from the basement up to the ceiling.
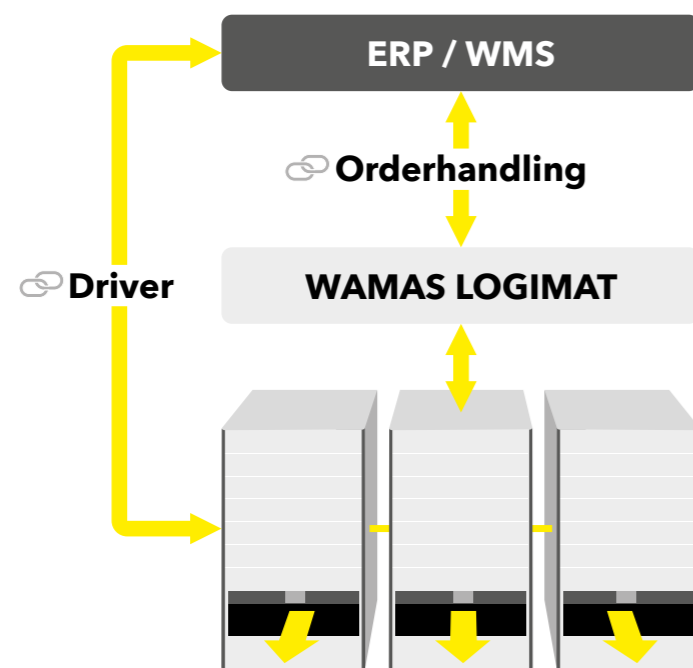
Several LOGIMATs can be used for the picking and storage of items, allowing other warehouse areas to be connected.

# CONTROL & SOFTWARE

## From simple applications to complex warehouse management

The LOGIMAT Vertical Lift Module is equipped with a standard controller (PLC). To connect the Vertical Lift Module to the customer's WMS or ERP system, there is a choice of the required interfaces and proprietary WAMAS® LOGIMAT software.

This means every project is based on a straightforward and reliable solution that can be individually tailored to the requirements of your logistical business processes with simple upgrades. Operation is easy with a self-explanatory touch panel user interface.



**ERP / WMS**

🔗 **Orderhandling**
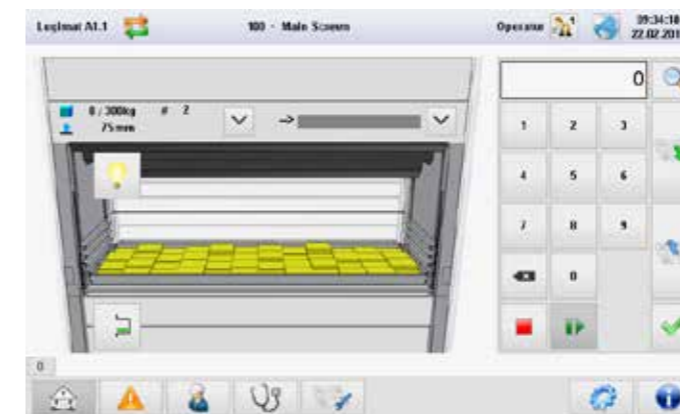
🔗 **Driver**    **WAMAS LOGIMAT**

### YOUR BENEFITS

- Streamlined warehouse processes for picking and replenishment
- No unnecessary actions
- Simple integration into existing processes
- Minimization of errors
- Scalability
- Intuitive user interface with touch panel

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# INTEGRATED STANDARD CONTROL

## Organization, control, and safety thanks to IT support

The LOGIMAT Vertical Lift Module is equipped with a programmable logic controller (PLC) as standard that represents the first step towards IT-supported warehouse management. This is operated via a graphical user interface.

The standard PLC controls all drives via frequency control, monitors the stored items and ensures reliable operation with up to four operating openings per Vertical Lift Module.



Visual display of the device status. The functions are depicted language-independently and intuitively using icons.

### AT A GLANCE: BASIC FUNCTIONS

- Requesting and returning trays
- Storage strategy with fixed height
- Intelligent height measurement (IHO) with automated consolidation function
- Shaft monitoring
- Safety light grid
- Filling rate display
- Logging and diagnosis
- User management
- Load monitoring, protrusion monitoring, etc.

## Control the LOGIMAT with your own software

With the Driver interface, the LOGIMAT trays can be controlled with the customer's own software. The Driver option is an interface based on the TCP/IP protocol. The precise specification can be obtained from our local specialists.

# WAMAS® LOGIMAT

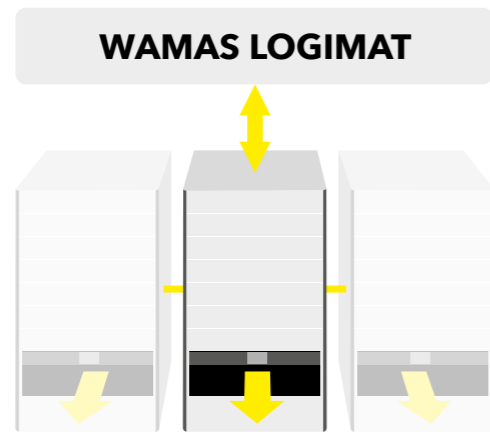## The software solution for item management with one or more Vertical Lift Modules

**WAMAS®**

WAMAS LOGIMAT is based on the globally established WAMAS® warehouse management software from SSI SCHAEFER. The application offers a simple and convenient introduction into the world of professional warehouse management systems.

**WAMAS LOGIMAT can be expanded with the following plug-ins:**
- Advanced Security: controlled access to individual trays and items by assigning user rights to user groups
- Tray Weight Control: visual monitoring of tray loading
- Velocity Management: different elevator speeds adapted to the stored items

Note: some functions require the corresponding hardware.

**WAMAS LOGIMAT**

**AT A GLANCE: BASIC FUNCTIONALITY**

- User management
- Item management
- Item images
- Location management (drag & drop bin & tray management)
- Integration of barcode scanners and label printers
- Lot management

- Best before date
- Storage strategies (incl. FIFO, LIFO)
- Counting function
- Statistics and reports
- Pick-by-Light
- Put-to-Light
- Report functions
- Stack processing

# ORDER HANDLING OPTION

## The solution for connecting to a superordinate system

The order handling option is the ideal solution for advanced requirements with a high degree of automation.
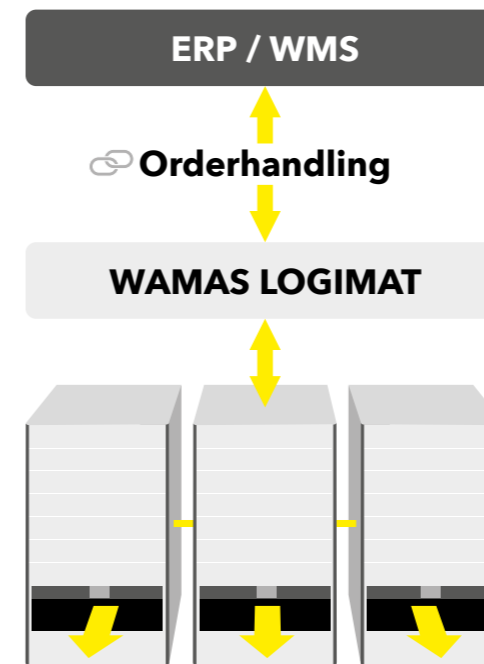
Building on the range of functions of the WAMAS LOGIMAT, the order handling option enables the application to be connected to a superordinate ERP system – flexibly via an interface.

The advantage: item stocks and orders are automatically synchronized and saved in the ERP system or WMS and in WAMAS LOGIMAT.

**The order handling option can be expanded with the following plug-ins:**
- LogiLight Control: the active operating opening automatically lights up
- Opening Priorities: if there are devices with multiple operating openings, they can be prioritized in order processing

Note: some functions require the corresponding hardware.

**ERP / WMS**

**Orderhandling**

**WAMAS LOGIMAT**

**IN ADDITION TO THE BASIC FUNCTIONS OF THE WAMAS LOGIMAT SOFTWARE, THE ORDER HANDLING OPTION INCLUDES THE FOLLOWING:**

- Order processing
- Storage, picking, and inventory orders
- Flexible interfaces allow simple connection to ERP systems or superordinate warehouse management systems
- Parallel picking to multiple LOGIMATs
- Order prioritization
- Creation of dynamic picking areas
- Batch picking

# SERVICE & MAINTENANCE

## Making sure everything runs smoothly

If you choose LogiMat, you can also rely on our strengths in the servicing sector that have made us a market leader: A range of services that is unique in this sector and the certainty that all services and site visits will be carried out by our own specialized service technicians.

Thanks to its robust design and high-quality components, the LOGIMAT is extremely low-maintenance. With customer-specific servicing and maintenance models, as well as innovative spare parts concepts, our global Customer Service & Support team ensures the optimal availability of your system, maximum operational reliability, and complete customer satisfaction.



### OUR SERVICES

- On-site troubleshooting
- Preventative maintenance
- Constant system monitoring
- Regular inspections and safety checks
- Global spare parts service
- Full documentation and rapid
- analysis capability
- Targeted training courses and certification
- Individually tailored modernization measures

# FIVE REASONS WHY YOU SHOULD CHOOSE LOGIMAT

**•Security:**
As a family business we are committed to long-term solutions – you can trust that we will be there for you tomorrow and in the years to come.

**Efficiency:**
Our solutions are scalable and grow with your needs. Investing in a solution you are therefore investing in the future.

**Quality:**
As a specialist for automation systems, we provide single source solutions of our own production. This guarantees that you will receive perfectly matched high-quality solutions.

• **Reliability:**
Thanks to our Customer Service & Support network, we are able to ensure flawless operation of your system sustainably.

• **Know-how:**
Our solutions are always up to date with the latest technological standard and can be smoothly integrated into the extisting (IT) landscape.

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