



Vertical Lift LogiMat®

Powerful technology for the storage
and picking of small parts

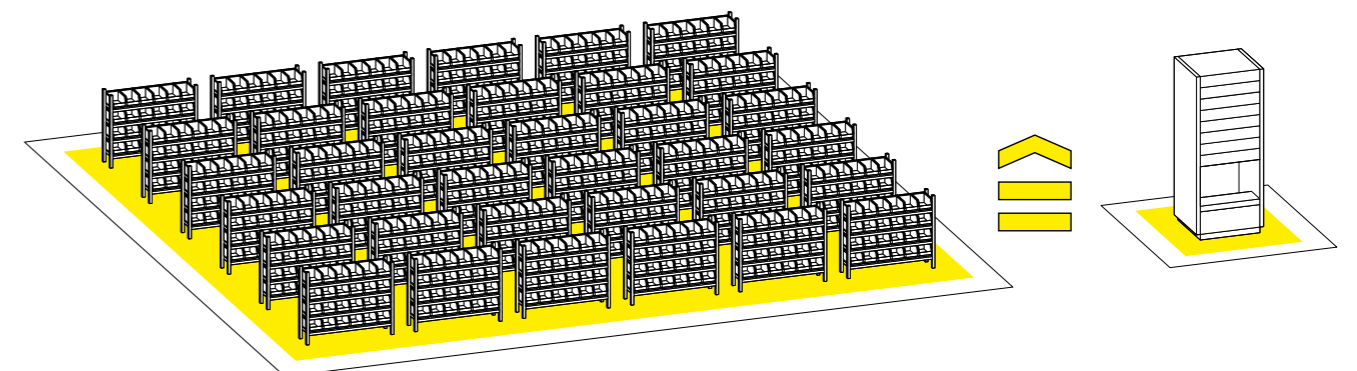
LogiMat®: We improve the performance of your storage and picking processes



The vertical lift LogiMat from SSI Schäfer is your all-in-one storage and picking solution. With its numerous main functions and unique additional options, the LogiMat not only improves the performance of your storage processes, it also guarantees ergonomic and safe operations in your warehouse. The LogiMat can be used as an autonomous system or integrated into an automatic application.

Your advantages:

- ▶ Highly convenient “goods to person” concept
- ▶ Reduces the floor area required for storage by up to 90% compared with static storage solutions
- ▶ Travel times reduced by over 70%
- ▶ Automated processes and ergonomic design improve performance by over 20%
- ▶ Compact design has economic and environmental advantages
- ▶ Makes optimal use of the available room height

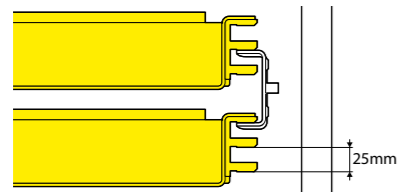


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The vertical lift LogiMat is a well-rounded complete solution that offers numerous main functions as standard features and is intended for all companies that would like to have a high-performance storage and picking system with all the most important functions.

Thanks to its scalable concept, the scope of functionality of the LogiMat can be customized precisely to the individual customer requirements.

- ▶ The compact design makes maximum use of the available room height
- ▶ Continuously variable storage of the trays in a 25 mm grid



- ▶ Visual, automatic display of the capacity utilization and overview of the filled and empty trays in the vertical lift
- ▶ Defragmentation and relocalization of the stored trays
- ▶ Storage strategy with FIXED height for highly compressed storage
- ▶ Storage strategy with intelligent height optimization (IHO)

- ▶ Modular design with standard components
- ▶ Low-maintenance system thanks to high-quality components and robust design
- ▶ Flexible tray design with frame and base designed to optimize space and weight
- ▶ 3 drive packages available for selection
- ▶ Elevator drive with low-maintenance gear drive



Compact

Robust

Safe

Ergonomic

- ▶ Automatic stored article monitoring to ensure that the goods to be stored lie within the permissible dimensions both vertically and horizontally
- ▶ Vertical shaft monitoring to detect any protruding trays before starting the elevator
- ▶ Safety light barrier for securing the operating opening against accidental access during storage or retrieval
- ▶ Predefined access permissions to trays and functions
- ▶ Intelligent lighting in every operating opening
- ▶ Programmable logic controller (PLC)

Unique:

- ▶ The LogiMat features the tilt mechanism LogiTilt, which enables the ergonomic retrieval of goods and reduces the reaching depth
- ▶ Thanks to LogiWork, the height of the output table can be adapted to the size of the employee

- ▶ Touch user interface with intuitive navigation
- ▶ Ergonomic operating opening with unique optional features
- ▶ Up to 4 operating openings per vertical lift at any position as standard feature

Expand the functionality of your vertical lift as needed with three predefined options packages. In this way, the LogiMat can be easily and practically adapted to your requirements with regard to ergonomics, performance and maintenance. By selecting an options package, you also profit from an advantageous cost-benefit ratio.

All vertical lift options are of course also available individually. This allows you to assemble precisely the LogiMat you want and flexibly configure it to your needs.

**Options package 1
Ergonomics**



For optimal and efficient work steps with minimal strain on the employees. This package contains the options:

- ▶ LogiBar
- ▶ LogiPointer
- ▶ LogiStainless
- ▶ LogiTilt
- ▶ LogiWork

**The focus is placed on
the employee**

**Options package 2
Performance**



For the highest requirements in speed and efficiency. This package contains the options:

- ▶ LogiBar
- ▶ LogiDual
- ▶ LogiGate
- ▶ LogiPointer
- ▶ LogiPower

**When speed is of
the essence**

**Options package 3
Maintenance**

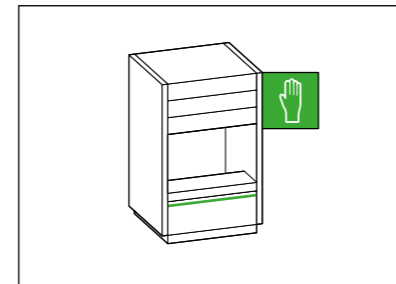


Work safety and investment security are the priority in this package. This package contains the options:

- ▶ LogiCircle
- ▶ LogiDrawer
- ▶ LogiLight
- ▶ LogiSpare

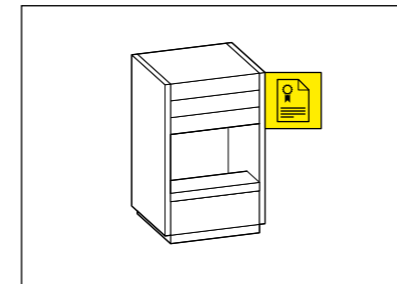
Maintenance made easy

LogiBar



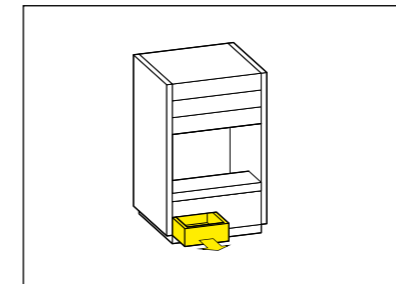
Reduced travel times and increased picking performance via confirmation of goods retrieval by the continuous confirmation light barrier under the operating opening

LogiCircle



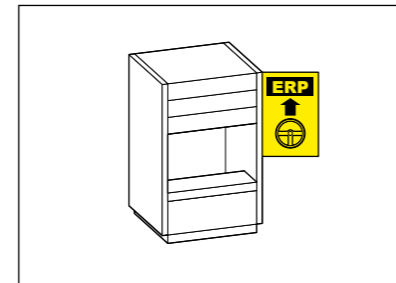
Extended warranty

LogiDrawer



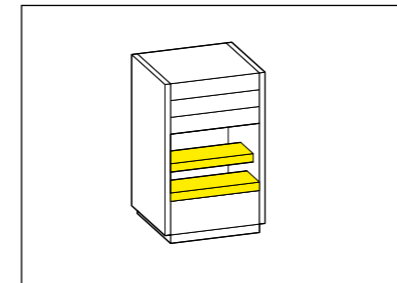
Drawer under operating opening

LogiDriver



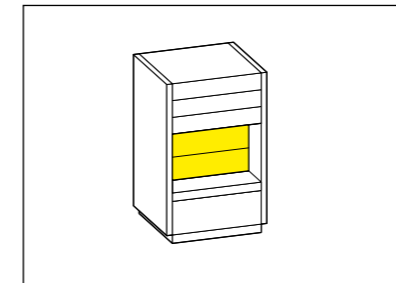
Standardized PLC interface for connection to customer systems

LogiDual



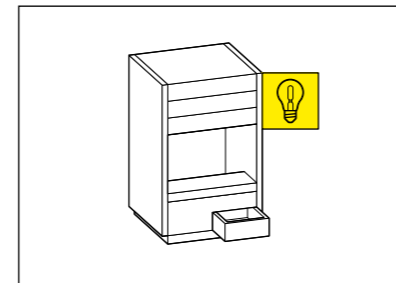
Parallel, time-delayed tray movements for improved performance. While goods are being removed from the first tray, the next tray is already moving to the operating opening

LogiGate



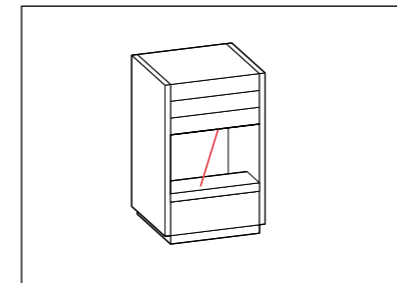
Interior automatic lifting gate for optimal protection of operator, machine and stored articles as well as reduced noise emissions

LogiLight



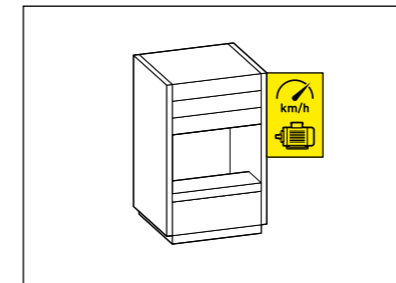
Additional shaft lighting and extra lamp in control cabinet

LogiPointer



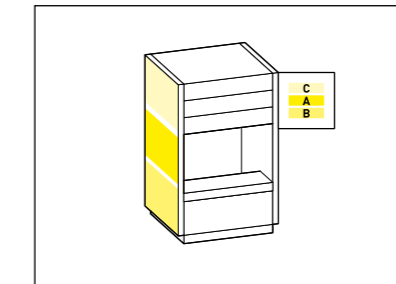
Designation of the removal position by a laser pointer system

LogiPower (Fast Drive)



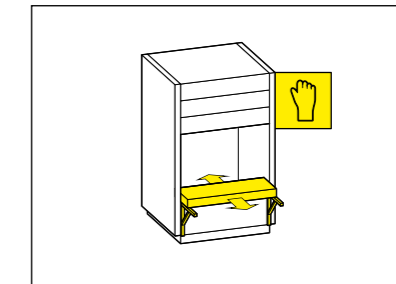
Drive with increased travel speed to reduce access times during picking

LogiPriority



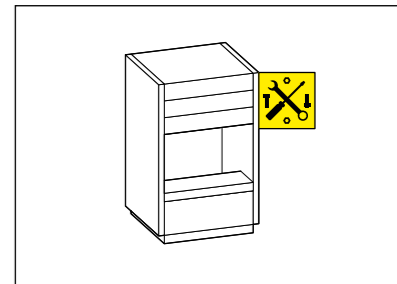
Sorting of the goods into ABC categories and prioritization of the access times for the stored goods

LogiPull



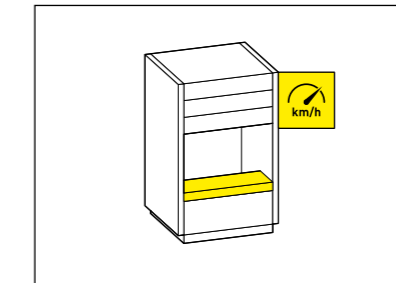
Manual full tray extension

LogiSpare



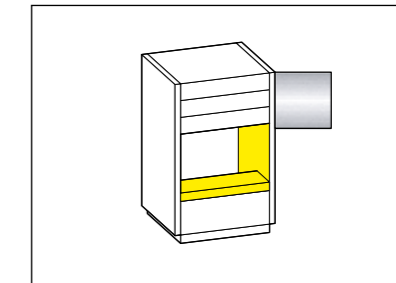
Spare parts package

LogiSpeed



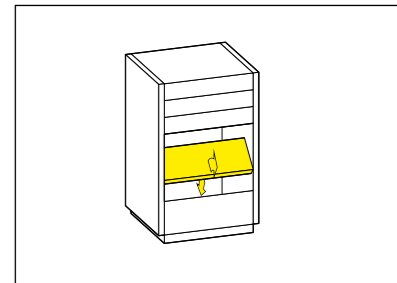
Individual travel speed adjustable for each tray for gentle transport of the stored articles

LogiStainless



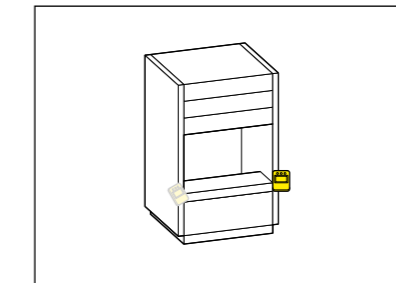
Long-lasting corrosion- and scratch-resistant covering of the operating opening with chrome-plated steel

LogiTilt



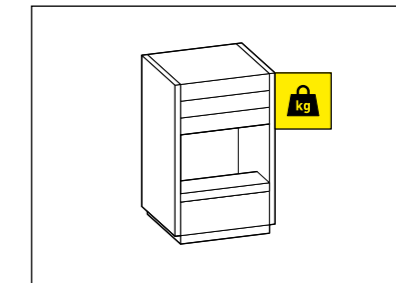
Output table tilting mechanism for ergonomic retrieval of the goods, reduced reaching depth and an optimal overview of the entire tray

12" touch panel



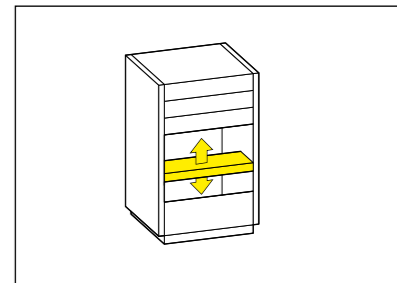
Large, well-organized touch interface for easier operation, optimized for use with WAMAS LogiMat

LogiWeight



Weight check of the trays during storage in order to prevent overloading of the trays and the structure

LogiWork



Height-adjustable tray output that is adapted to the employee in order to ensure an ergonomic retrieval height

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



Usable dimensions Tray (mm)	A Width (mm) Including paneling	B Depth (mm) Including 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

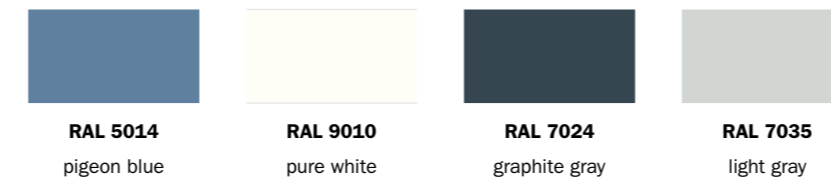
Maximum height:
up to 23,850 mm
in 100 mm increments

**C Height of
operating opening:**
1,950 mm
(depending on levelling)

Tray load:
up to 650 kg

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

Standard paneling colors:



Other colors available upon request. Please note that color deviations arise due to monitor and printer settings.

No limits to the installation possibilities

Whether separate storage and retrieval sides, two-sided storage or retrieval on the next floor above; whether rising from a basement to extend over two floors, projecting through the ceiling or recessed into the floor – the device can be adapted to any situation.



The operating opening of the vertical lift modules is located on the "main level" of the warehouse, while the vertical lift modules themselves were installed extending from the basement floor to just below the hall ceiling.

Intelligent exterior installation thanks to paneling

The LogiMat vertical lift module can be attached to the outer facade of a warehouse, if necessary. Such an installation can minimize the construction costs for expansion of the warehouse because only the cut-out for the operating opening of the LogiMat needs to be taken into consideration in the existing building facade. In addition, this type of vertical lift module installation allows for independent planning of the system height.



Because of the surrounding vehicle infrastructure, the LogiMat was constructed against the outer facade of the warehouse and outfitted with paneling.

Even greater efficiency thanks to conveying systems

Integrating the LogiMat into ergonomically designed conveying systems is an effective measure for realizing the efficient transport of goods within a facility. The conveyor equipment connects the individual warehouse areas or workstations together. This allows the employees to focus entirely on the picking of goods on the LogiMat. The SSI Schaefer advantage: Higher productivity, reliable technologies and flexible applications (container and cardboard box conveying systems) and all components from a single source.



8 LogiMats are used for the picking and storage of the articles. The SSI Auto-cruiser handles the integration with the other storage areas.

Optimal use of warehouse space

SSI Schäfer offers almost unlimited choice in the selection of sorting accessories. The standard trays can be supplemented with items from the comprehensive plastic box selection, entirely according to your needs.

Here are a few examples of tray layouts. Other options can be found in our container catalog, and we would also be happy to work out possible layouts with you during a personal consultation.

Tray design with frame and base



Trays height-adjustable in 25 mm increments



A brilliant organizer for every warehouse: **Rack boxes**



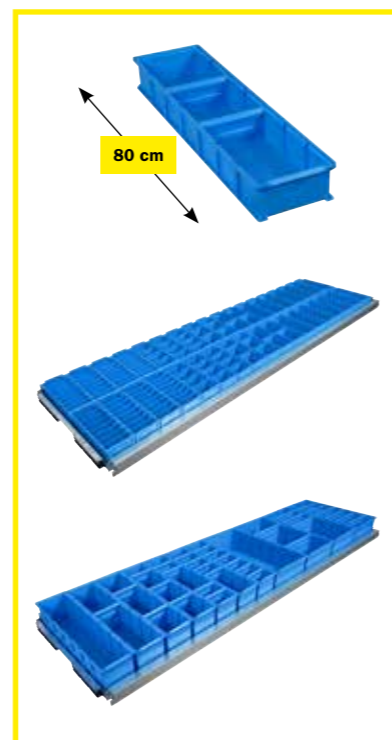
Cleverly organized with the classic top seller **EUROFIX (EF)**



Exclusively from SSI Schäfer: The LMB container series, with individually configurable separating walls



LMB containers are **optimized** for partitioning at the **tray depth of 800 mm** and can additionally be sectioned off with separating walls.

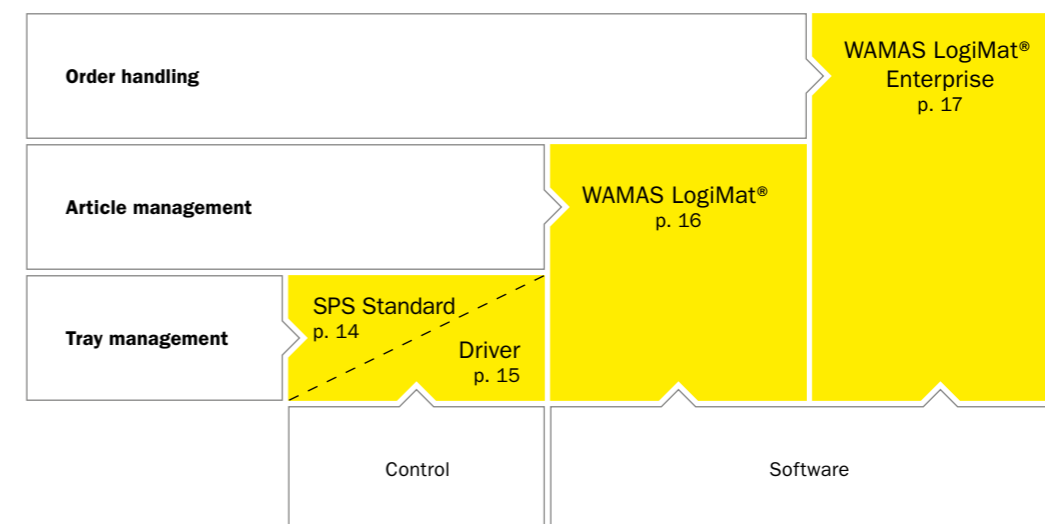


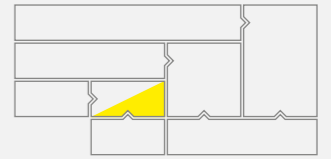
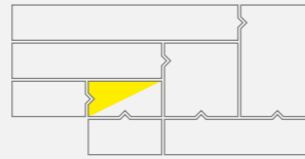
From simple applications to complex warehouse management: Anything is possible!

The LogiMat is equipped with a standard control (PLC). One control option and two software packages are available for individual configuration of the vertical lift. In this way, every project is based on a straightforward and reliable solution that can be individually customized to the requirements of your logistical business processes by means of simple extensions. Operation is easy with a self-explanatory touch panel user interface.

Your benefits:

- ▶ Streamlined warehouse processes (picking and material flow)
- ▶ Elimination of unnecessary work steps
- ▶ Simple integration into existing processes
- ▶ Minimizing errors
- ▶ Scalability
- ▶ Intuitive user interface with touch panel





Integrated standard control

The LogiMat vertical lift module from SSI Schäfer is equipped by default with a programmable logic controller (PLC) that represents the first step in computer-aided warehouse management. This is operated with a graphical user interface.

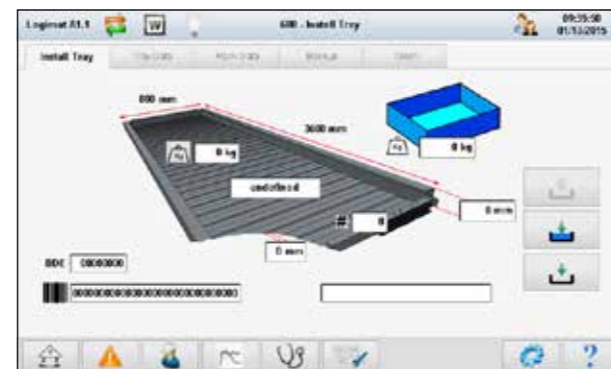
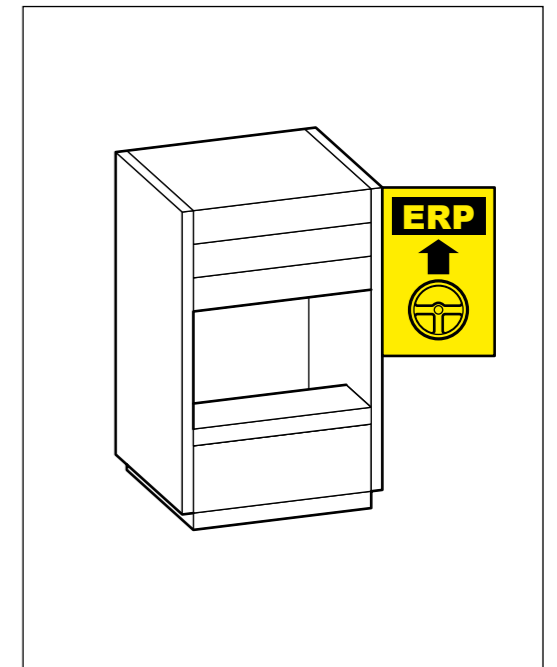
The standard PLC controls all drives via frequency control, monitors the stored articles and ensures reliable operation with up to four operating openings per vertical lift module.

The standard PLC also enables numerous core functions without additional software, for example:

- ▶ Requesting and returning trays
- ▶ Fixed storage
- ▶ Intelligent height measurement (IHO) with automatic compression function
- ▶ Shaft monitoring
- ▶ Safety light curtain
- ▶ Capacity utilization display
- ▶ Logging and diagnosis
- ▶ User management

Control the LogiMat® with your own software

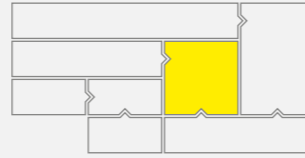
- ▶ Would you like to control the LogiMat vertical lift module with your own ERP system?
- ▶ Would you like to use your own user interface with the LogiMat?
- ▶ Do you have your own in-house software developers?



Visual depiction of the system status. The functions are intuitively indicated using language-independent icons.

Then the **Driver control option** is just right for you! With this control option, the **trays of the LogiMat can be controlled with customer-developed 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

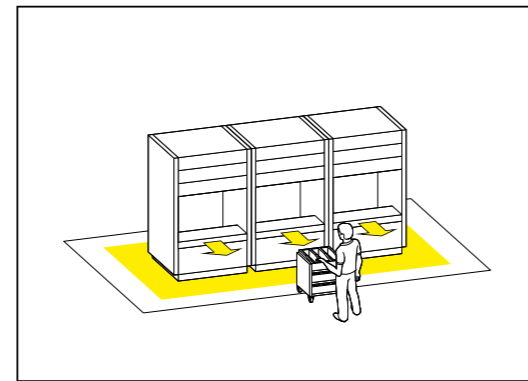
The software solution for article management with one or more LogiMats

- ▶ Would you like to manage your articles and their quantities in the LogiMat?
- ▶ Should articles be stored and retrieved based on the scanning of barcodes?
- ▶ Would you like to minimize possible sources of picking errors?
- ▶ Would you prefer not to develop or adapt your own software?

Then you will find that WAMAS LogiMat is the ideal standard software for one or more LogiMats. WAMAS LogiMat is based on the warehouse management software WAMAS® from SSI Schäfer that is used widely around the world. The application offers a simple and convenient way to get started in the world of professional warehouse management systems.

WAMAS LogiMat includes extensive core functionality:

- ▶ User management
- ▶ Article management
- ▶ Article images
- ▶ Location management (drag & drop container and tray management)
- ▶ Integration of barcode scanners and label printers
- ▶ Lot management
- ▶ Best before date
- ▶ Storage strategies (including FIFO, LIFO)
- ▶ Counting function
- ▶ Statistics and reports
- ▶ Pick by light
- ▶ Put by light



WAMAS LogiMat can be extended with the following plug-ins:

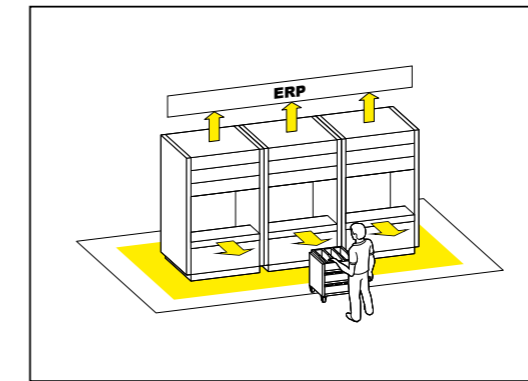
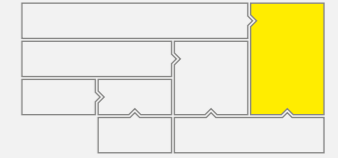
- ▶ Advanced security: Controlled access to individual trays and articles through the assignment of user rights and user groups
- ▶ Tray weight control: Visual monitoring of the tray load
- ▶ Velocity management: Varying elevator speeds adapted to the stored articles

Note: Specific functions require corresponding hardware. Our experts will be happy to advise you!

WAMAS® LogiMat Enterprise

The software solution for integration of one or more LogiMats into an ERP system

- ▶ Would you like to integrate your LogiMats into your existing ERP system?
- ▶ Should your LogiMat processes be highly automated?
- ▶ Do you want to process complete orders on the LogiMat?



WAMAS LogiMat Enterprise can be extended with the following plug-ins:

- ▶ Advanced security: Controlled access to individual trays and articles through the assignment of user rights and user groups
- ▶ Tray weight control: Visual monitoring of the tray load
- ▶ Velocity management: Varying elevator speeds adapted to the stored articles
- ▶ LogiLight control: Automatic lighting of the active operating opening
- ▶ Opening priorities: On systems with multiple operating openings, the openings can be prioritized in the order processing

Note: Specific functions require corresponding hardware. Our experts will be happy to advise you!

WAMAS LogiMat Enterprise is the ideal solution for advanced requirements.

Using the functionality of WAMAS LogiMat as a basis, WAMAS LogiMat Enterprise offers the additional capability to flexibly integrate the application into an ERP system via an interface.

Your advantage: Article inventories and orders are automatically synchronized between the ERP system and the WAMAS LogiMat Enterprise software.

WAMAS LogiMat Enterprise includes the functionality of the WAMAS LogiMat software edition. The following additional functions are also possible:

- ▶ Order handling
- ▶ Storage, picking and inventory orders
- ▶ Flexible interfaces allow simple integration with ERP systems or higher level warehouse management systems
- ▶ Parallel picking at multiple vertical lift modules
- ▶ Order prioritization

Service & Maintenance LogiMat®

If you choose SSI Schäfer, you can also rely on our strengths in the service area that have made us a market leader: a service spectrum unique throughout the industry and the certainty that all services and site visits will be carried out by our own specialized SSI Schäfer service technicians.

Thanks to its robust design and high-quality components, the vertical lift LogiMat from SSI Schäfer is extremely low-maintenance. With customer-specific service and maintenance models as well as innovative spare parts concepts, our service team ensures the optimal availability of your system, maximum operational reliability and complete customer satisfaction.



Our services:

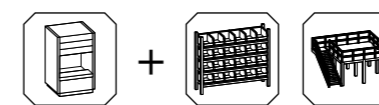
- ▶ Troubleshooting
- ▶ Maintenance
- ▶ Supervision
- ▶ Rack inspection / safety inspections
- ▶ Spare parts management
- ▶ Modernization / repair / retrofits
- ▶ Documentation
- ▶ Training / certification

Integrated standard systems (ISS)

SSI Schäfer offers a range of products designed for mutual compatibility that can also be customized and expanded precisely to your requirements. The LogiMat vertical lift module is no exception and can be used as a stand-alone solution as well as integrated into (partially) automated material flows. You can further optimize your internal processes by integrating the vertical lift module with other warehouse areas, conveying systems or ergonomic assembly workstations.

Bucher Schörling AG

Manufacturer of municipal vehicles

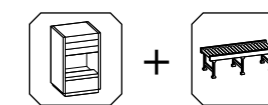


- ▶ Storage lifts
- ▶ Shelving technology for small parts
- ▶ Storage platforms and shelving mezzanines

Bucher Schörling AG optimized its warehouse and picking processes with a new, highly coordinated intralogistics solution. Five modern vertical lift modules and one static rack now ensure an exceptional level of compression in the new warehouse as well as fast, structured processes.

Creativ Company A/S

Hobby and creative products



- ▶ Storage lifts
- ▶ Conveyor technology

Creativ Company is a leading provider of hobby and creative materials. When the company was looking to establish a new, comprehensive logistics system, it chose a solution from SSI Schäfer. The core of the system consists of 8 LogiMats, which are used for picking and storage. The SSI Autocruiser conveying system transports a total of 300 – 450 units per hour over a 300 m long path.

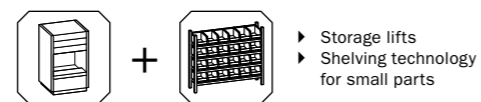
Integrated standard systems (ISS)

Ingrid L. Blecha Ges.m.b.H
Aluminum products



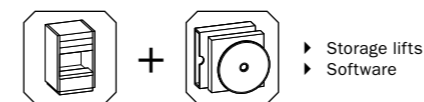
Ingrid L. Blecha Ges. m.b.H sells aluminum products to customers around the world. To avoid interfering with its vehicle infrastructure, the company installed its LogiMat on the outer facade of the warehouse instead of inside the building. A fire protection shell was also affixed to the steel skeleton of the vertical lift module.

atziert:weber-Gruppe
Automotive



The atziert:weber group operates four car dealerships and Auto Sofort Service GmbH in Hesse, Germany. One locator warehouse on two levels together with the LogiMat vertical lift module ensure efficient processes. Shelf racks, crossbar racks and mobile racks as well as drawers serve for storage of the parts. With direct integration with the systems, LogiMat performs multiple functions: it serves as a connecting link between the levels with one operating opening on each floor and also as a buffer for the pre-picked orders that wait in the LogiMat until they are retrieved.

era-contact GmbH
Manufacturer of electric train couplings, contacts, etc.



The 4 new LogiMat vertical lift modules not only save space, they provide redundancy for the interfaces and significantly improve the reliability and efficiency of the picking processes. The vertical lift modules are connected to the higher level ERP system of the customer via warehouse management software. In addition to parallel synchronization of the inventories, this also allows for a reliable inventory of the stored components at any time.

KNF Flodos AG
Membrane pumps expert



KNF Flodos encompasses 16 companies and 5 production sites around the world. In order to meet the demands of their global operations, the company decided on an international collaboration with SSI Schäfer. To meet the goal of optimizing all processes across all countries, there was only one implementation partner worth considering that also operates globally but still offers a fixed local contact person and can deliver everything from a single source. LogiMats have already been installed on two continents. The operating opening of the vertical lift modules is located on the "main level" of the warehouse, while the vertical lift modules themselves were installed extending from the basement floor to just below the hall ceiling. The orders are generated via SAP and entered into the LogiMat management software via barcodes. Thanks to customization of the software, the customer can carry out picking processes worldwide without the need to take part volumes into account.

