

CASE STUDY

Reference customer Muller Martini, Switzerland:
Cutting-edge machinery and systems for
print processing and newspaper logistics

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MÜLLER MARTINI



SSI SCHÄFER

MACHINERY AND SYSTEMS FOR PRINT PROCESSING AND NEWSPAPER LOGISTICS

As a manufacturer and supplier of systems packed with leading technology, Muller Martini provides services to the global graphics industry. The company develops market-oriented solutions based on their customers' needs. Drawing on decades of experience and a high level of technical expertise, Muller Martini constantly sets new benchmarks with its innovations.



Muller Martini offers high-quality system solutions and first-class services for industrial applications in the graphics industry, with a global sales network and production sites in Switzerland, Germany, the USA, and China.

Muller Martini Print Finishing Systems AG

Muller Martini Print Finishing Systems AG in Zofingen, Switzerland, is the world's leading manufacturer of machinery and systems for print processing and newspaper logistics in the offset and digital printing segment. The systems are developed, manufactured, and marketed in Zofingen. The company's site in Felben, in the Swiss Canton of Thurgovia, is also a

center of excellence for adhesive bonding. Muller Martini Book Technology GmbH in Bad Mergentheim, Germany, is home to the company's Print Finishing Business Unit, where systems for hard cover production are manufactured.

The storage of spare and technology parts as well as the storage of assembly parts has been centralized at the Zofingen site over the last few years. The lift modules which were dismantled at former plants and sites have been re-assembled and consolidated in Zofingen.

THE REQUIREMENTS

The dynamic market environment of the printing industry requires quick responses and efficient solutions from Muller Martini. Continuous transparency and smooth processes form the basis of the company's success on the market. For this reason, Muller Martini decided to modernize its storage environment and replace the existing 46 lift modules with 17 new LogiMat Vertical Lift Modules from SSI SCHAEFER.



Muller Martini knew from experience that storage in lift modules was an optimal solution for their business, which is why the decision was made to strip down the existing, narrow lift modules and replace them with new, innovative LogiMat Vertical Lift Modules from SSI SCHAEFER.

The Zofingen site houses a total of 69,000 materials needed for production, with over half of them stored in the 17 Vertical Lift Modules. With 51,600 storage locations, the Vertical Lift Module installation in Switzerland is the largest of its kind.

THE PROJECT GOALS

- Provision of a 2,600 m² storage area for approx. 48,000 items
- Dismantling of the existing lift modules and construction of SSI SCHAEFER LogiMat without disrupting normal plant operation
- Integration of Vertical Lift Modules into the SAP environment



THE SOLUTION COMPONENTS

LogiMat® Vertical Lift Module

The spare parts and components handled on a daily basis (approx. 300 different items) are delivered to quality control, or are taken directly to the assembly area or warehouse, depending on the requirements. An incoming goods transaction and a transport order are generated via ERP (SAP) for those parts that are delivered straight to the warehouse. The goods are then transported to the LogiMats for storage with the accompanying documentation.

If an assembly order is planned and recorded in the ERP system, a picking order is generated and provided to the employees. The barcode printed on the picking order is read by the barcode scanner on the LogiMat. The required components are now provided by the LogiMat. Every time an item is removed, the process is acknowledged using the LogiBar. The lift system needs to generate the retrieval process for the parts in ascending order by storage location and LogiMat to ensure efficient picking.

Once the order has been fully picked, the components, which are gathered on a carousel carrier, are sent for removal in the relevant area. The goods are then delivered via internal transport to the previously defined assembly address, where the parts are installed accordingly.



LogiDual: Alternating provision of trays on 2 operating levels per access opening



LogiPointer: Optical indication of the storage position through a laser pointer



LogiBar: Continuous confirmation light barrier under the operating opening for optimizing the picking performance



LogiTilt: Tilting mechanism of the tray for ergonomic operation

AT A GLANCE: THE LOGIMAT® VERTICAL LIFT MODULE

- Highly convenient goods-to-person picking principle
- Compact design has economic and environmental advantages
- Walking time 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 %

Connection to SAP

Muller Martini opted to use SAP as its ERP system many years ago. All master data, orders, etc., are maintained and stored in SAP. Integrating the Vertical Lift Modules into the SAP environment was a crucial success factor for Muller Martini.

Thanks to Status C, the LogiMat Vertical Lift Modules can be integrated directly into the SAP environment. The software solution integrates directly into SAP without customer-specific transactions having to be created. Future software updates from SAP can therefore be implemented easily.



The interface of the SAP integration solution Status C is very intuitive and is easy to operate using the touch screen

AT A GLANCE: CONTROLLING THE LOGIMAT FROM SAP

- Integration without having to adapt the existing SAP installation
- No additional hardware needs to be installed
- The entire logic for stock management, as well as the strategies for storage, retrieval, and controlling the Vertical Lift Modules, are contained in the SAP system



„SSI SCHAEFER offered us a complete solution that fully meets our requirements. The LogiMat is a robust product boasting the latest technology and the solution offered for integration into our SAP environment really impressed us.“

Roland Habermann
Head of order logistics, SAL,
OEM purchasing at Muller Martini Print Finishing Systems AG

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FACTS AND FIGURES

System key figures

Storage space	7,700 m ² in total (SSI SCHAEFER LogiMat warehouse area = 500 m ²)
Stock keeping units (SKUs)	Approx. 70,000
Activity peaks	Approx. 3,300 goods movements per day on average. Dependent upon order intake. No seasonal influences.

LogiMat® Vertical Lift Modules

LogiMat® Vertical Lift Modules	
Number	17
Width	3 m
Height	6.850 mm
Number of trays	An average of 62 trays per Vertical Lift Module
Storage locations	51,900 in total

LogiMat® Vertical Lift Module Options	
LogiBar	Continuous confirmation light barrier under the operating opening for optimizing the picking performance.
LogiTilt	Tilting mechanism of the tray for ergonomic operation.
LogiDual	Alternating provision of trays on 2 operating levels per access opening.
LogiPointer	Optical indication of the storage position through a laser pointer.

Software solution	
SAP integration using Status C	



SIX REASONS FOR CHOOSING SSI SCHAEFER:

- **Security:**

As a financially independent 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 business. An SSI SCHAEFER solution is a future-oriented investment.

- **Quality:**

As a specialist in automation, we provide a single-source solution. As an original equipment manufacturer we guarantee quality and the right solutions for your needs.

- **Reliability**

Thanks to our world-wide Customer Service & Support network we ensure a smooth operation of your system.

- **Know-how:**

Our solutions are always up-to-date with the latest technological standards and are easily integrated into an existing (IT) landscape.

- **Internationality:**

As a globally acting company we have local offices worldwide and our team of experts speaks your language.



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