

# FLEXUS

Your SAP Intralogistics Partner

FLX-TLS

FLX-TLS Material Guidance  
System for SAP®

Optimize your  
in-house transports

SAP® Premium Certified  
Integration with SAP Applications



## FLX-TLS Material Guidance System

- ✓ Better traceability of your flow of goods
- ✓ Higher utilization of your fleet of forklifts
- ✓ Dynamic management of tugger trains
- ✓ Reduction of empty runs
- ✓ Reduction of control requirements
- ✓ No more search times
- ✓ High usability with simplified design and system logic



## The FLX-TLS - scalable from a forklift call system up to the complex Industry 4.0 platform

### Central system for all requirements

The FLX-TLS Material Guidance System does not only allow for simple and transparent management of your fleet of forklifts, the system also takes into account all existing resources that are necessary for the flow of material in a company. Features include the optimization of forklifts, tugger trains, employees with mobile terminals and also the optimization of in-plant truck traffic.



*FLX-TLS Dashboard*

FLX-TLS is a comprehensive approach for trans-sectoral management and for route optimization of flow of material. The Guidance System minimizes empty runs. The software demonstrates its benefits in particular through the direct integration with SAP® ERP.

### Efficient transport planning

The centralized order pool supplies the individual transport resources with the most efficient transport tasks. The built in and parameterized algorithms enable the route optimized use of vehicles and more efficient use of employees. The automated control of shipments is enabled by mobile forklift terminals, by handhelds when using barcodes or by the use of tracking technology. By using the Flexus Material Guidance System, the entire transport processing will be automated to a certain degree and transparently displayed in the SAP® system.

It also includes the following core functions:

- Algorithms for the placing of orders (reduction of empty runs, priorities, maturities, etc.)
- Integration of all in-house vehicles (e.g. tugger trains, forklifts, automated guided vehicles)
- Connection of all SAP-modules and non-SAP-modules (warehouse, production, shipping, organizational runs)
- The range of applications ranges from simple Transport Control Systems up to complex Material Guidance Systems
- Real time navigation of forklifts for complex company sites
- Direct integration into SAP® (centralized and decentralized)



## Modular and customizable

- Graphic planning tool for the predefinition of paths and routes
- Mobile management for processing of transport requests
- TLS-control station for management of transport requests
- Evaluation and dashboards for operating numbers

## Extension modules for FLX-TLS Material Guidance System

The components of the Flexus Material Guidance System allows for a simple implementation and administration of the system.

Manual changes of routes, of new transport resources or of rollouts to further company sites can be carried out easily.

- Integration of tigger trains
- Integration of handling unit management
- Integration of WIP warehouses in production
- Integration of 3D-tracking system with navigation
- Live 2D-dashboards of plant layouts

## FLX-TLS route optimization with integrated Forklift Guidance System for SAP®

## Areas of operation

The FLX-TLS Material Guidance System can be customized, depending on the purpose of the application. The areas of application can be combined with each other.

- Application for management and optimization of warehouses, shipping and production
- Integration of the entire intralogistics
- Management of logistics centers / shipping centers with connection of the automated small parts storage area / narrow-aisle trucks
- Application for management of material flow in production (WIP warehouse control) including handling unit management and Interim Storage Management
- Incorporating tigger trains, suspension trains, handling units and supply of supermarkets
- Optimization as add-on for SAP® MM, WM, EWM, PP, SD and extern systems



Tigger train management



WIP in production



Integration of tracking / 3D navigation



Production management



Handling input management



Trailer management



Simulation tools



Integration of AGVs (automated guided vehicles)

## FLEXUS – Your SAP® Intralogistics Partner

Flexus AG is your competent consulting and development company for the process-oriented implementation of SAP® logistics solutions.

As certified SAP® partner, we have a long-standing expertise in the field of intralogistics. The Flexus solutions for SAP® intralogistics range from FLX-Yard Management, the FLX-Material Guidance System and the comprehensive portfolio for mobile apps with innovative technologies.

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### Flexus AG

John-Skilton-Str. 2

D-97074 Würzburg

Germany

Tel.: +49 931 466 211 00

info@flexus.de

www.flexus.de

