



flexguide.

Transport Guidance System for SAP

automated guided vehicle

AGV control system

> directly in SAP $^{\ensuremath{\mathbb{R}}}$

automated guided vehicle AGV control system

> directly in SAP[®]

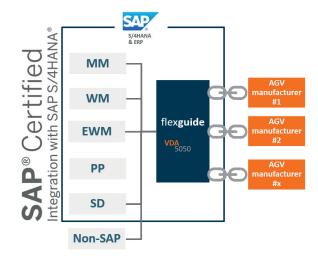
FlexGuide for AGVs optimizes your material flow

Driverless conveyors for goods movement in intralogistics. In many companies, these are an integral part of the internal vehicle fleet and a future without autonomous guided vehicles (AGVs) is no longer conceivable.

But there are challenges faced in the efficient material flow of AGVs. One is the use of multiple AGVs from different manufacturers that have their own fleet management in heterogeneous user interfaces. Furthermore, you need to integrate all of these vehicles into your established material flow concept with a perfect fit and without performance deficits. On the other hand, the automated guided vehicles usually have to operate in the same areas as manned forklifts, tugger trains or ants. Here, transparent communication among the conveyors is essential. Exactly to solve these challenges Flexus AG has developed the FlexGuide for AGVs directly integrated in SAP.



CDC (Central Data Cockpit): Overview and live locations of all AGVs in your company as well as current status and fault messages at a glance.



Control of AGVs in SAP[®]

With FlexGuide control system fully integrated into your SAP ERP/ ECC or S/4HANA system, it is possible to receive and process transport orders from all SAP logistics modules. These can be EWM, WM, MM, PP, TM as well as Stock Room Management. The SAP certified solution and integration is based on your existing SAP system without any middleware. This allows you to control and optimize your vehicles directly from SAP. This means that there is no loss of data or reduction in performance in your company and you can call up all relevant data directly in your SAP system. Thanks to a VDA 5050 interface, the solution is also compatible with several AGV manufacturers in one system. This means that several manufacturers operating in your company can be connected and optimized centrally via FlexGuide for AGVs.

Functions of the FlexGuides for AGVs

The central component of FlexGuide for AGVs is the transport task pool. This pool collects all the transport tasks that arise in intralogistics. These can originate from production (e.g. PP confirmations or production orders), the warehouse (e.g. WM transport orders or EWM warehouse tasks), but also from objects that are not managed in SAP (recyclable material or empty goods transports). These transport tasks are then distributed to the most suitable vehicle for

the order based on predefined priorities. These priorities can be, among other things, the avoidance of empty runs, the shortest possible waiting times or the due dates of the order. Of course, manual intervention by the employee in the system is possible at any time. Furthermore, it is easily possible to integrate external systems such as sensors or roller shutters into the system so that they can communicate with each other. The driving jobs are now driven by the AGVs that are best suited for this specific job in order to meet the predefined priorities.

Deployment of hybrid fleets

Thanks to the integrated guidance system, the control of manually controlled vehicles has already been successfully implemented. This means that hybrid fleets, i.e. forklifts, tugger trains and AGVs, can also jointly manage the driving jobs that arise. These are also controlled and optimized centrally and in one user interface by the FlexGuide.

This makes it possible to design the entire material flow completely transparently and clearly, so that you always have an overview of the entire vehicle fleet and its orders. As a result, multi-level transport orders can be generated between the individual vehicles. This means, for example, that a transport order is first executed by a manually controlled vehicle and then transferred to an automated conveyor.

Advantages of FlexGuide for your AGVs

Transport Guidance System for SAP

- > Optimization of your entire intralogistic vehicle fleet
- Data maintenance and adjustments in a user-friendly interface, directly in your SAP system
- > Uniform map management for a better overview
- Optimization of incoming orders based on previously defined priorities through efficient algorithms and AI
- > Incident management central monitoring of vehicle status
- Intelligent battery management monitoring of the overall charging status of the fleet and consideration of the order load
- Intersection management blocking of intersections for safe passage of an AGV
- Route management definition of route assignment for diffe rent sections



Cost reduction in intralogistics



Reduction of empty runs



Direct SAP integration



Increase of flexiblity



Integrated

reporting



Hybrid feet managementt





More about

FLEXUSAG

YOUR PREMIUM SAP[®] INTRALOGISTICS PARTNER

If your company is looking for a partner who can help you with the digital transformation of your logistics processes, make the decision easy. We are there for you. Flexus AG advises and supports medium-sized companies and international corporations in the optimization of intralogistic processes in SAP.

As SAP partner company we are exactly the specialists when it comes to consulting and implementation of SAP logistics solutions. Benefit from our holistic consulting approach and our many years of experience in the integration of individual logistics solutions. In particular, we use the SAP add-ons of our **360° Logistics Suite**°, which offer you the possibility to significantly streamline, simplify and thus noticeably optimize your material flow.

Together, we create a competitive logistics infrastructure that equips you for the future.



FLEXUS AG

John-Skilton-Str. 2 D-97074 Würzburg Phone: +49 931 466 211 100 Mail: sales@flexus.net www.flexus.de