



WMS-Intelligent storage control system

WMS is Warehouse Management information system . The warehouse management system is through the functions of warehousing business,warehouse transfer, inventory transfer and empty warehouse management. The management system, which integrates the functions of batch management, material matching, inventory counting, quality inspection management, empty warehouse management and instant inventory management, effectively controls and tracks the whole process of logistics and cost management of warehouse business, and realizes perfect enterprise warehousing information management. The system can carry out the inventory operation independently, and can be combined with the documents and vouchers of other systems through the interface system, which can provide a more complete and comprehensive enterprise business process and financial management information.

WCS-Intelligent warehouse management control system

WCS is Warehouse Control system, scheduling system. It is between the automatic warehouse management system and the control equipment, through the development of internal protocols, connecting the management system and PLC control system. The management and monitoring of automated three-dimensional warehouse will control various logistics equipment for scheduling and management of automated three-dimensional warehouse. The communication process completes the communication between the management/monitoring system and various logistics equipment. The logistics process issues the transportation application and the storage application according to the lower machine, allocates the cargo location, and generates the corresponding task instructions. The scheduling process queues tasks according to the scheduling rules and sends commands based on the priority.

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ZHENGZHOU WEILAI

AGV handling robot
intelligent three-
dimensional storage

ZHENGZHOU WEILAI
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AGV Handling Robot



Z1 Series Heavy Load AGV



Z1 series heavy load AGV, can provide 3t, 5t, 10t, 16t, 20t, 32t, 50t, 60t, 70t, 80t, 100t, 300t load capacity, with in-place steering and transverse function, especially suitable for large size, large tonnage workpiece transport. It can be operated on asphalt, self-leveling, concrete ground, and has a strong ability to adapt to ground conditions. The whole vehicle has the function of self-lifting, in addition to directly carrying the workpiece, it can also be self-lifting by drilling into the workpiece frame, and indirectly carrying the workpiece after lifting the workpiece frame. According to user requirements, multiple AGVs can be synchronously linked for lifting oversized parts. Automatic operation using laser SLAM navigation mode, can also be operated remotely.

C1 Forklift AGV



C1 forklift AGV, mainly used in stacking, loading and unloading material environment, can work all day without interruption, to achieve efficient operation of production line without manual factory. The C1-1t stacking forklift

AGV is the main access device in the automated storage system with a maximum load of 1000kg. According to the computer instructions to walk in the roadway between the three-dimensional shelves, use the fork to take out or store the goods on the cargo grid. The machine has light weight, fast speed, simple structure and small turning radius. Using laser SLAM navigation, the application of flexible path can be planned and adjusted in real time to adapt to flexible production scenarios. The scheduling algorithm is excellent, the performance is stable and reliable, and the function is perfect.

A1 Series jack-up AGV



A1-1t bidirectional latent AGV, using laser SLAM navigation, A1-1.5t bidirectional latent AGV, using two-dimensional compound navigation mode of code + inertial navigation. The AGV can automatically move to the bottom of the material and then drive the material to the required storage location. Two-way driving to realize intelligent distribution of materials. AGV distribution is stable, accurate and flexible. Forward, retreat, turn, bifurcation walking, precise positioning, flexible application, real-time path planning and adjustment. Excellent scheduling algorithm, performance stable and reliable, perfect function.

R1 Series Heavy Load RGV



The R1 series heavy-load AGV can be operated automatically or remotely, significantly reducing transportation costs and improving transportation efficiency. It uses sliding power supply wire, barcode positioning or laser positioning, which is used to connect multiple logistics nodes, and has the characteristics of fast, flexible, simple configuration and easy maintenance. It is the main conveying equipment in modern factories, which runs on preset guide rails and is suitable for the transportation of large goods on logistics systems and station production lines. R1-16t, R1-50t and R1-100t guided cars are available. Widely used in heavy machinery factory, railway traffic, special operations, ports and airports, large voltage plant, heavy vehicle factory and other places.

Intelligent three-dimensional storage

Weilai intelligent three-dimensional storage is widely used in machinery industry, pharmaceutical industry, logistics and transportation, freight storage, food industry and new energy and many other industries. Intelligent vertical warehouse logistics distribution line is formed through storage location, stacker, transfer AGV, lifting device and roller conveying line system. Through warehouse control system (WCS), connected warehouse management system (WMS), enterprise resource management system (ERP), Realize the efficient synchronization of the control management and material data information of the customer's automatic equipment.



Application scenarios of intelligent storage equipment