

鹤壁海昌智能科技股份有限公司

智能物流事业部

HACINT INTELLIGENCE TECHNOLOGY CO.,LTD

INTELLIGENT LOGISTICS BUSINESS UNIT

地址：河南省鹤壁市经济技术开发区渤海路396号

Add: No.396, Bohai Road, Economic Development Zone Hebi City, Henan Province, China

邮编P.C.: 458030

电话Tel: 166-3926-9815

邮箱Email: yanfeng@hacint.com.cn

长春技术服务中心

CHANGCHUN TECHNOLOGY SERVICE CENTER

地址：长春市朝阳区光谷大街咖啡小镇52栋1单元401室

Add: Room 401, Unit 1, Building 52, Guanggu Avenue Coffee Town, Chaoyang District, Changchun

邮编P.C.: 130012

电话Tel: 166-3926-9823

邮箱Email: zhuxinwei@hacint.com.cn

重庆技术服务中心

CHONGQING TECHNOLOGY SERVICE CENTER

地址：重庆市北部新区翠渝路2号汽车工业配套园4区C栋3层5楼

Add: 5/F, 3/F, Building C, Zone 4, Automobile Industry Supporting Park, No. 2, Cuiyu Road, New North Zone, Chongqing

邮编P.C.: 401120

电话Tel: 166-3926-9812

邮箱Email: liuhuibiao@hacint.com.cn

亚洲营销服务

ASIA MARKETING SERVICES

地址：河南省鹤壁市经济技术开发区渤海路396号

Add: No.396, Bohai Road, Economic Development Zone Hebi City, Henan Province, China

邮编P.C.: 458030

电话Tel: 166-3926-9815

邮箱Email: yanfeng@hacint.com.cn

美洲营销服务

AMERICA MARKETING SERVICES

地址：河南省鹤壁市经济技术开发区渤海路396号

Add: No.396, Bohai Road, Economic Development Zone Hebi City, Henan Province, China

邮编P.C.: 458030

电话Tel: 166-3926-9800

邮箱Email: wangxin@hacint.com.cn

欧洲营销服务

EUROPE MARKETING SERVICES

地址：河南省鹤壁市经济技术开发区渤海路396号

Add: No.396, Bohai Road, Economic Development Zone Hebi City, Henan Province, China

邮编P.C.: 458030

电话Tel: 166-3926-9831

邮箱Email: liyuanyuan2@hacint.com.cn

非洲营销服务

AFRICA MARKETING SERVICES

地址：河南省鹤壁市经济技术开发区渤海路396号

Add: No.396, Bohai Road, Economic Development Zone Hebi City, Henan Province, China

邮编P.C.: 458030

电话Tel: 166-3926-9816

邮箱Email: yangjilong@hacint.com.cn

联系电话 CONTACT

151 3619 7544 部门经理 DM

198 3926 6808 工程师 Engineer

198 3926 7213 工程师 Engineer

全球服务热线 Global service hotline

400-666-9765



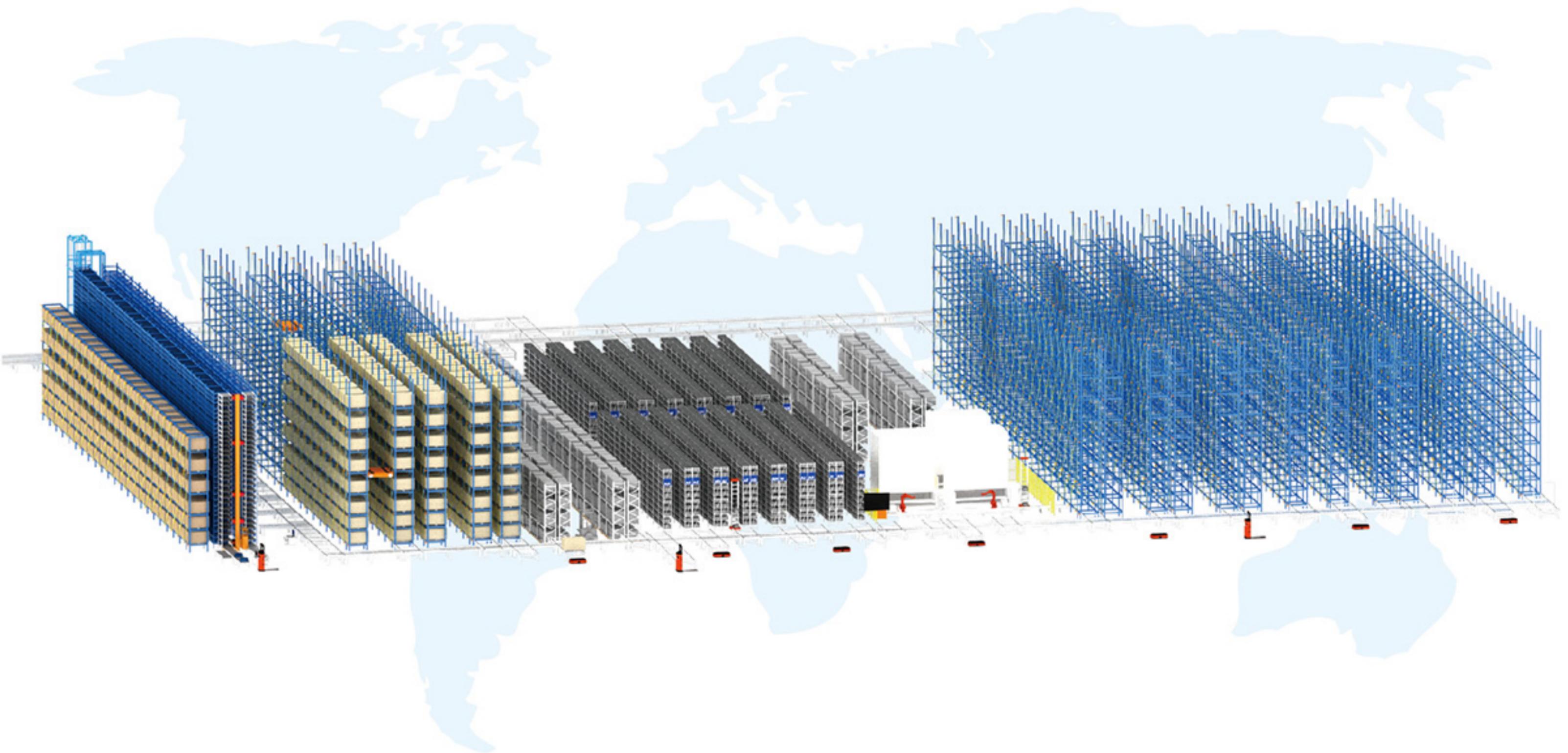
2025



海昌智能微信公众号

## 智能物流系统集成解决方案供应商

服务行业：线束、注塑、冲压、线缆、电子、机加、自动化仓储等汽车零部件行业





## 海昌智能—智能物流事业部概况

### HACINT INTELLIGENCE – OVERVIEW OF THE INTELLIGENT LOGISTICS BUSINESS UNIT

智能物流事业部位于河南省鹤壁市经济技术开发区渤海路396号，隶属于鹤壁海昌智能科技股份有限公司，成立于2024年。目前主要为线束、注塑、冲压、线缆、电子、机加、自动化仓储等汽车零部件行业提供智能物流系统集成解决方案。

我们深度融合AS/RS、AMR、自动化货柜、拣选工作站及输送设备等核心装备，致力于构建全流程智能化物流体系，实现物流环节的高效运作与无缝衔接。依托WMS、WCS、RCS等信息系统的统筹调度与管理，实现物料无人化精准配送和高效存储。以智能物流赋能汽车零部件行业，提升企业核心竞争力，助力行业向智能化转型升级。

The Intelligent Logistics Business Unit is located at No. 396 Bohai Road, Economic Development Zone, Hebi City, Henan Province. It is affiliated with Hebi Hacint Intelligence Technology Co., Ltd. and was established in 2024. At present, it mainly provides integrated solutions for intelligent logistics systems for the automotive parts industry such as wire harnesses, injection molding, stamping, cables, electronics, machining, and automated warehousing.

We deeply integrate core equipment such as AS/RS, AMR, automated storage cabinets, picking workstations, and conveying equipment, and are committed to building an intelligent logistics system for the entire process, achieving efficient operation and seamless connection of logistics links. Relying on the overall planning, dispatching and management of information systems such as WMS, WCS, and RCS, we achieve unmanned and precise delivery and efficient storage of materials. Empowering the automotive parts industry with intelligent logistics, we enhance the core competitiveness of enterprises and assist the industry in transforming and upgrading towards intelligence.

## HMES海弘智造WMS系统

### HMES INTELLIGENT MANUFACTURING WMS SYSTEM

#### 产品介绍 INTRODUCTION

HMES海弘智造WMS系统，旨在为客户提供从入库到出库全过程的仓储信息一体化解决方案。实现订单、货品、库位的全条码管理，解决账实不符和仓库作业不规范等基础问题，建立以物流为中心全流程条码化作业流程，并且通过收货、上架、调拨、出库等操作提高库存准确率，执行过程的动态监控和信息追溯。

系统采用混合式技术架构，主要有库存数据管理、设备自动化对接、仓储作业实时记录、电子看板监控、信息系统集成等特色功能，极大提高仓储效率和信息化管理水平，同时保证库存准确性和追溯性，为管理者对仓储现场管理和决策提供有力支持。

HMES WMS system, crafted by Hacint Henan, aims to deliver an integrated solution for warehousing information, encompassing the entire process from inventory entry to exit. It facilitates comprehensive barcode management for orders, goods, and storage locations, addressing fundamental issues such as discrepancies between accounts and reality, and non-standard warehouse operations. It establishes a logistics-centered, fully barcoded workflow, and enhances inventory accuracy through operations like receiving, shelving, allocation, and exit, while providing dynamic monitoring and information traceability throughout the execution process.

The system adopts a hybrid technology architecture, featuring inventory data management, automated equipment docking, real-time recording of warehouse operations, electronic board monitoring, information system integration, and other specialized functions. It greatly enhances warehouse efficiency and information management levels, while ensuring inventory accuracy and traceability, providing strong support for managers in warehouse site management and decision-making.

#### 功能特性 FEATHER

##### ● 基础数据: Basic data:

原材料信息、半成品信息、成品信息、项目信息、客户信息、供应商信息、报表分析

##### ● 单据管理: Document management:

入库单、出库单、退货单、拣货单

##### ● 检验管理: Inspection management:

来料检验、检验方案、检验方法、检验规则、定时任务

##### ● 标签中心: Label Center:

创建标签、标签规则、标签拆分、标签合并、标签打印

##### ● 盘点管理: Inventory management:

盘点任务、盘点报表、盘点差异记录、盘点操作

##### ● 报表: Report Form:

库存报表、出入库记录、上下架记录、仓储记录、仓库库存分析

##### ● PDA: PDA:

上下架、出入库、盘点、来料检、记录查询

##### ● 仓库管理: Warehouse management:

仓库信息、库位信息、物料库存、物料明细、同步ERP

##### ● 系统交互: System interaction:

ERP、MES、CRM、SCM、PLM、立库控制系统

#### 系统特点 SYSTEM FEATURES

高效的数据处理能力	Efficient data processing capability	精准的报表分析能力	Accurate report analysis capability
快速响应与决策支持	Rapid response and decision support	多维度报表	Multi-dimensional report
实时更新与准确记录	Real-time updating and accurate recording	直观展示报表内容	Intuitively display report content
灵活的作业流程配置	Flexible job process configuration	优化的作业效率	Optimized operational efficiency
高度灵活性	High flexibility	智能调度	Intelligent scheduling
自定义功能	Custom function	自动化设备集成	Automation equipment integration
智能化的库存管理	Intelligent inventory management	良好的可扩展性和集成性	Good scalability and integrability
智能算法优化	Optimization of intelligent algorithms	设计简洁明了	The design is simple and clear
实时监控与预警	Real-time monitoring and early warning	降低学习成本 降低操作难度	Reduce learning costs and operational difficulty

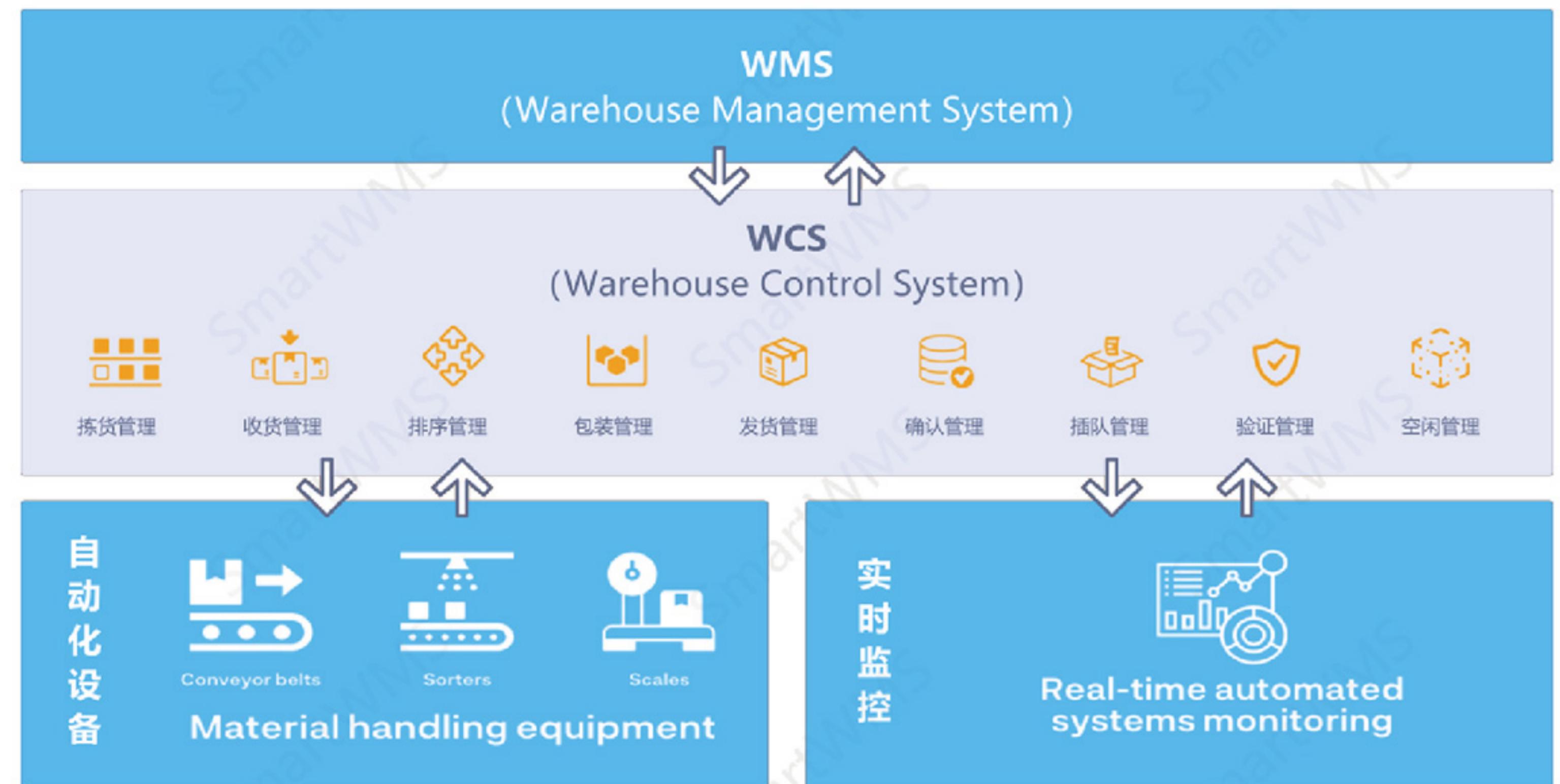
#### 客户案例 CUSTOMER CASE

某知名企业线束事业部通过引入WMS仓库系统，成功打造智能工厂解决方案。系统对接MES、立库及ERP系统，大幅提升仓库效率与精准度。同时，开发了十余个仓库报表及看板，实现仓库数据实时监控与物料库存分析，助力决策优化。通过客户端、网页端、移动端的多端协同操作，企业实现了全流程数字化管理，显著提升了运营效率与灵活性，为行业智能化转型树立了标杆。

The wire harness division of a well-known enterprise has successfully developed a smart factory solution by introducing the WMS warehouse system. The system is integrated with MES, automated warehouse, and ERP systems, significantly enhancing warehouse efficiency and accuracy. Additionally, over ten warehouse reports and dashboards have been developed to enable real-time monitoring of warehouse data and material inventory analysis, aiding in decision optimization. Through multi-terminal collaborative operations on client, web, and mobile terminals, the enterprise has achieved full-process digital management, significantly improving operational efficiency and flexibility, and setting a benchmark for the industry's intelligent transformation.



## 海昌WCS系统 ( WAREHOUSE CONTROL SYSTEM )



## 产品介绍 INTRODUCTION

WCS用于指导仓库和配送中心 ( DC ) 内的实时活动。作为仓库/配送中心的“交通警察”，最大限度地提高物料搬运子系统的效率。它为各种物料搬运设备（如自动仓库、转盘、输送机系统、分拣机、码垛机等）提供了统一的接口。

WCS is used to guide real-time activities within warehouses and DC. Serving as the "traffic police" of the warehouse/distribution center, maximizing the efficiency of the material handling subsystem. It provides a unified interface for various material handling equipment, such as automated warehouses, turntables, conveyor systems, sorters, palletizers, and more.

## 功能特性 FEATHER

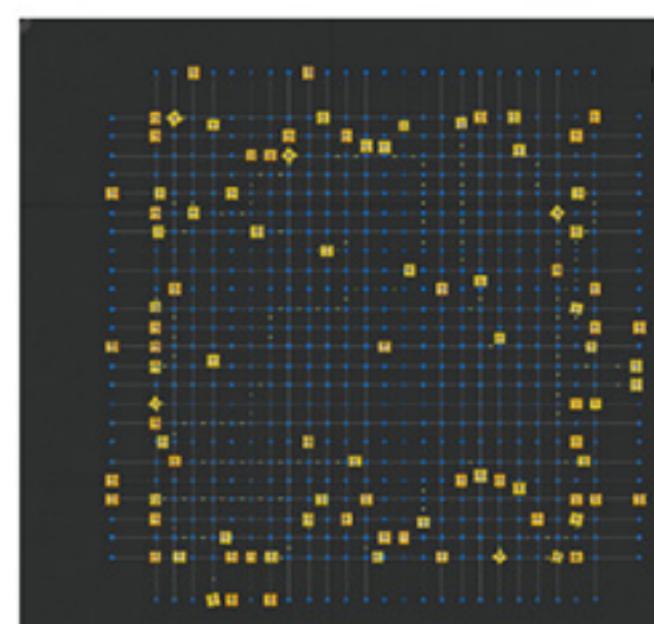
仓库控制系统 ( WCS ) 与 WMS 集成, 以提供额外的控制和功能层。它专门设计用于控制设施内的任何自动化技术或设备, 例如输送机、分拣机、自动仓库等。

WCS is integrated with WMS to provide an additional layer of control and functionality. It is specifically designed to control any automation technology or equipment within the facility, such as conveyors, sorters, automated warehouses, etc.

- 自动化拣选管理      Automated picking management
- 领料标签管理      Material requisition label management
- 灯光拣货管理      Light-based goods picking management
- 系统路由管理      System route management
- 质量管理      Quality Assurance
- 包装站管理      Packaging station management
- 打印管理      Print management

## 海昌RCS—AGV/AMR 混合调度系统

### HACINT RCS – AGV/AMR HYBRID SCHEDULING SYSTEM



## 产品介绍 INTRODUCTION

全组态的面向智能工厂及智慧物流的自动化控制系统, 组态、智能、简单、高效 旨在实现一款通用的、高效的自动化控制系统。A fully configured automated control system tailored for Intelligent factories and intelligent logistics, featuring configurability, intelligence, simplicity, and efficiency. It aims to achieve a versatile and efficient automated control system.

## 特性 FEATHER

### 全组态:

自动化现场具有极其复杂的需求; 不同现场、同一现场的不同时期均具有不同的需求, 且控制设备众多, 为满足此要求, 组态系统脱颖而出。

### 支持仿真:

通过相关配置设计, 给到客户一个实时运行的系统, 所有环节与真实生产相同, 直观且极具说服力的向客户展示设计方案。

### 全面的数据:

多样化的信息采集及记录功能, 包括了统计系统、维保系统、针对通讯的报文监看系统、针对系统的故障日志等。

### 混合调度:

支持AGV、RGV立体仓库四向穿梭车, 无人自动叉车, 无人自动矿车, 混合调度多家品牌AGV产品。兼容市面上仙工智能, 杭州科聪, 上海宾通等主流控制器, 不挑AGV产品品牌, 不挑导航通讯技术, 不挑应用场景, 全部可以接入。兼容VDA505 MQtt UDP 以及自研协议。

## 功能 FEATHER

### 导航算法:

全新的导航算法, 以满足复杂的棋盘格及SLAM导航需求。

基于遗传算法的全新导航规划, 可以轻松应对复杂棋盘格导航的需求, 且对于过道通行能力有限的导航需求具有先天的优势。

全新的规则算法, 以满足不同现场极端的导航需求。

### 集成化:

完整内嵌WCS及WMS, 满足AllInOne系统的需求。

内嵌复杂坐标系统, 支持多楼层, 多区域的坐标拟合需求。

完全独立的协议模板, 支持任意拓展各种现场设备。

### 双架构:

C/S及B/S双架构。同时拥有C/S架构的超高性能及B/S架构的丰富拓展性、多设备终端特定。

### 数字孪生:

AGV/AMR数字孪生方案, 可直观展示AGV等设备运行情况。

### Full configuration:

The automation scene has extremely complex requirements; different scenes and different periods within the same scene all have varying needs, and there are numerous control devices. To meet these requirements, configuration systems stand out.

### Support simulation:

Through relevant configuration design, we provide customers with a system that operates in real-time, with all aspects mirroring real production. This visually and persuasively demonstrates the design scheme to customers.

### Comprehensive data:

Diverse information collection and recording functions, including statistical systems, maintenance systems, message monitoring systems for communication, fault logs for systems, etc.

### Mixed scheduling:

Support AGV, RGV four-way shuttle cars in three-dimensional warehouses, unmanned automatic forklifts, unmanned automatic mining cars, and mixed scheduling of multiple brands of AGV products. Compatible with mainstream controllers such as Xiangong Intelligence, Hangzhou Kechong, and Shanghai Bintong on the market, regardless of AGV product brand, navigation and communication technology, or application scenario, all can be integrated. Compatible with VDA505 MQtt UDP and self-developed protocols.

### Navigation algorithm:

A brand-new navigation algorithm to meet the complex requirements of checkerboard and SLAM navigation.

The brand-new navigation planning based on genetic algorithms can easily meet the requirements of complex grid navigation, and has inherent advantages for navigation needs with limited aisle capacity.

Brand-new rule algorithms to meet extreme navigation needs on different sites.

### Integration:

Fully integrate WCS and WMS to meet the requirements of the AllInOne system.

Embedded with a complex coordinate system, it supports coordinate fitting requirements for multiple floors and regions.

A completely independent protocol template that supports the arbitrary expansion of various on-site devices.

### Dual architecture:

C/S and B/S dual architecture. It possesses both the ultra-high performance of C/S architecture and the rich scalability and multi-device terminal specificity of B/S architecture.

### Digital twin:

The AGV/AMR digital twin solution can visually display the operation status of AGV and other equipment.

## LTYF-500 立体库

LTYF-500 AS/RS



### 产品介绍 INTRODUCTION

LTYF-500 立体库、高架库或高架仓库，一般是指采用几层、十几层乃至几十层高的货架储存单元货物，用相应的物料搬运设备进行货物入库和出库作业的仓库。

由于这类仓库能充分利用空间储存货物，故常形象地将其称为“立体仓库”。

自动化立体库（AS/RS）是物流技术的革命性成果，它一般由高层货架、巷道堆垛机、输送机、控制系统和计算机管理系统（WMS）等构成，可以在计算机系统控制下完成单元货物的自动存取作业。

### 特性 FEATHER

- **空间利用:** 提高空间利用率
- **物流系统:** 采用先进的自动化物料搬运设备
- **存取效率:** 加快货物的存取节奏，减轻劳动强度，提高生产效率 建立以自动化立体仓库为中心的物流系统
- **优化库存:** 减少库存资金积压
- **Space utilization:** Improve space utilization
- **The logistics system:** Adopts advanced automated material handling equipment
- **Storage and retrieval efficiency:** Accelerate the pace of goods storage and retrieval, reduce labor intensity, and enhance production efficiency. Establish a logistics system centered around automated three-dimensional warehouses
- **Optimize inventory:** Reduce overstocking of inventory funds

### 技术参数 SPECIFICATIONS

型 号 Type	LTYF-500	
库存容量 Inventory Capacity	可定制	Customizable
仓位数量 Number of Storage Spaces	可定制	Customizable
载荷量 Load Capacity	500~4000kg	500~4000kg
货架高度 Shelf Height	5~40m	5~40m
巷道宽度 Lane Width	1.5~3m	1.5~3m
货架尺寸 Shelf Size	可定制	Customizable

## DXYF-500 导线墙立体库

DXYF-500 WIRE AS/RS

### 产品介绍 INTRODUCTION

DXYF-500 产品是专门针对线束加工行业的一种仓储方式。将立体库、线边库、自动机侧抽线位相结合，立体库下层做抽线工位使用，与自动机直接连接。线轴存入后通过导向槽直接连接到自动机上进行机器加工，立体库上方做仓储货位使用，线轴入库后直接存入上方库位，仓储货位到抽线工位在库内完成。

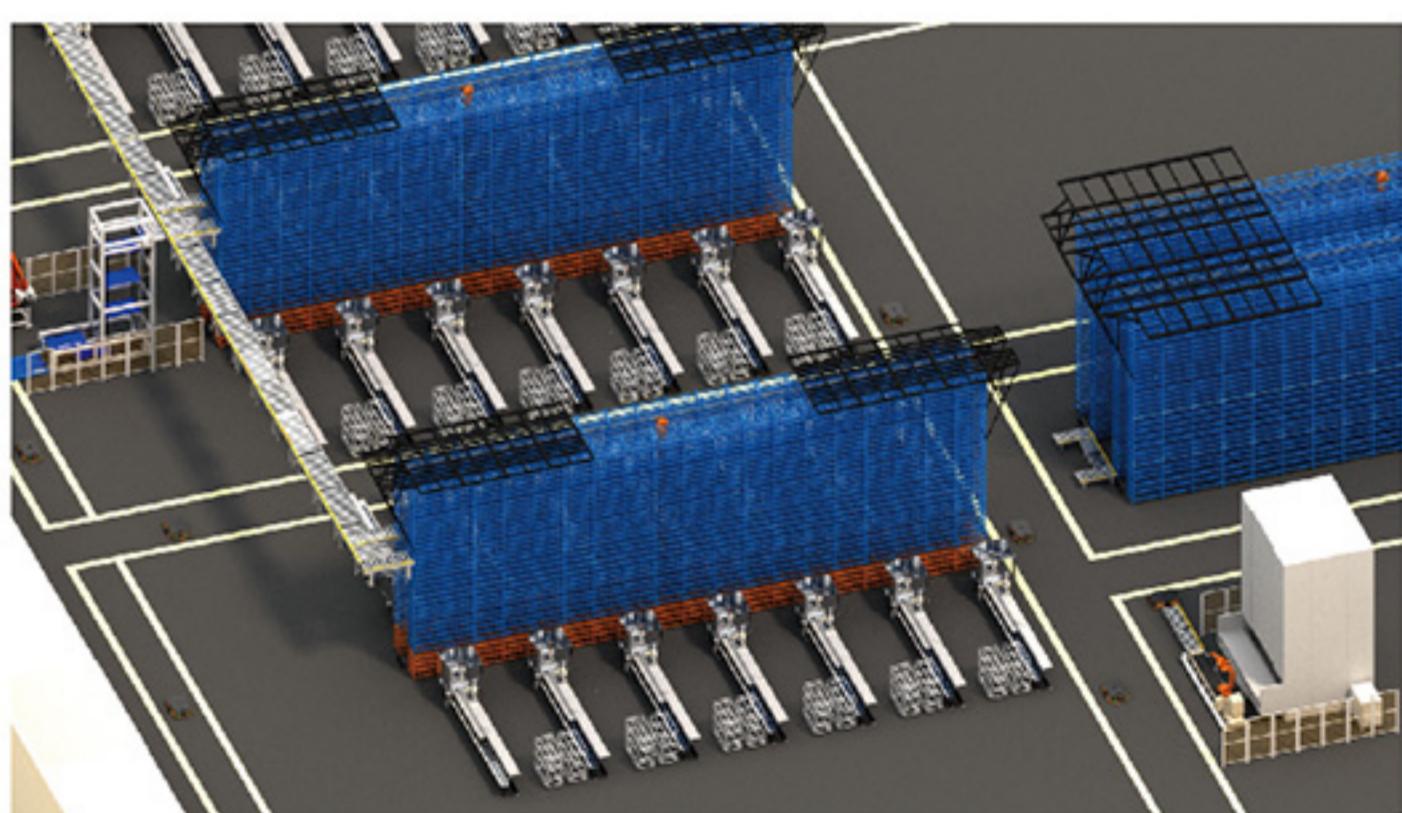
The DXYF-500 product is a specialized storage solution tailored for the wire harness processing industry. It integrates a three-dimensional warehouse, an on-line warehouse, and automatic machine-side wire extraction stations. The lower level of the three-dimensional warehouse serves as a wire extraction station, directly linked to the automatic machine. After being stored, the wire spools are guided through a slot and directly connected to the automatic machine for processing. The upper level of the three-dimensional warehouse is used for storage, and wire spools are directly stored in the upper storage locations after being placed in. The transfer from storage location to wire extraction station is completed within the warehouse.

### 特性 FEATHER

- **减少货物转运:** 直接减少货物从原材料仓库到线边库的转运。
- **空间利用效率高:** 立体库通过垂直空间的开发，极大地提高了仓储空间的利用率。
- **作业效率高:** 立体库通常配备自动化设备，如堆垛机、输送线等，实现货物的快速入库、出库和搬运。
- **成本节约:** 立体库的高效能运作有助于减少能源消耗，节约运营成本。
- **提高存取效率:** 立体库中的自动化设备如升降机器人、堆垛机等，可以实现快速准确的货物存取，大大缩短存取时间，提高存取效率。
- **增强货物保护:** 立体库通过自动化设备的操作，使货物的存储和搬运过程更加稳定和可靠，避免人为因素对货物造成的损坏和损失。
- **实时监控和管理:** 立体库配备了先进的监控和管理系统，能够实时监测仓储环境、库存状态和设备运行情况，提供准确的库存信息和仓储数据，为企业管理决策提供参考。
- **适应特殊环境:** 立体库能够适应黑暗、有毒、低温等特殊环境的要求，提升管理水平。
- **Reduce dedicated freight transportation:** Directly reduce the transfer of goods from the raw material warehouse to the line-side warehouse.
- **High space utilization efficiency:** AS/RS greatly enhances the utilization rate of storage space.
- **High work efficiency:** AS/RS are typically equipped with automated equipment such as stackers and conveyor lines to facilitate the rapid storage, retrieval, and handling of goods.
- **Cost savings:** The efficient operation of AS/RS helps reduce energy consumption and save operating costs.
- **Improve access efficiency:** Automated equipment in AS/RS, such as lifting robots and stackers, can achieve fast and accurate goods retrieval, significantly reducing retrieval time and improving retrieval efficiency.
- **Enhance cargo protection:** Through the operation of automated equipment, AS/RS makes the storage and handling process of goods more stable and reliable, avoiding damage and loss caused by human factors to the goods.
- **Real-time monitoring and management:** AS/RS is equipped with advanced monitoring and management systems, capable of real-time monitoring of the storage environment, inventory status, and equipment operation. It provides accurate inventory information and storage data, serving as a reference for enterprise management decisions.
- **Adapt to special environments:** AS/RS can adapt to the requirements of special occasions such as darkness, toxicity, and low temperature, enhancing management level.

### 技术参数 SPECIFICATIONS

型 号 Type	DXYF-500	
结构设计 Structure Design	自定义	customize
容 量 Capacity	自定义	customize
速 度 Speed	自定义	customize
精 度 Accuracy	自定义	customize
承 载 量 Capacity	自定义	customize
追 踪 监 控 Tracking and Monitoring	自定义	customize



## HGYF-35000 垂直升降式自动货柜

### HGYF-35000 VERTICAL LIFTING AUTOMATIC STORAGE CABINET

#### 产品介绍 INTRODUCTION

HGYF-35000 垂直升降式自动货柜, 模块化设计, 充分利用垂直方向的空间。标准设备最大高度可达16.1米, 最大承载可达90,000公斤。可以安全, 洁净, 高效地储存各种物料, 最高可以节省90% 的占地面积。

The HGYF-35000 vertical lifting automatic storage cabinet features a modular design, making full use of the vertical space. The maximum height of the standard equipment can reach 16.1 meters, and the maximum load capacity can reach 90,000 kilograms. It can safely, cleanly and efficiently store various materials, and can save up to 90% of the floor area at most.

#### 特性 FEATHER

- **存取能力:** 存取能力最大可达 120个托盘/小时
- **存取类型:** 内置式存取口或外置式存取及托盘单层或托盘双层
- **Access Capacity:** The maximum access capacity can reach 120 pallets per hour.
- **Types of Access Ports:** Built-in access ports or external access ports, and single-layer pallets or double-layer pallets.



#### 技术参数 SPECIFICATIONS

型 号	Type	HGYF-35000
设备高度	Height	3300mm至16100mm/from 3300 mm to 16100 mm
设备高度增量	Height Increment	200mm
托盘存储调节幅度	Tray Storage Pitch	25mm
托盘宽度	Tray widths	1500mm至4100mm/from 1500 mm to 4100 mm
托盘深度	Tray Depths	654mm和857mm
总载重	Total Load Capacity	35000kg至90000kg视设备型号和配置而定 Gross total payload: from 35000kg to 90000 kg depending on model and configuration
存储物料最大高度	Maximum Storage Height Capacity	695mm(bay S) / 895mm(bay M) /1295mm(bay XL)
操作界面	Operation Interface	10.4 寸触摸屏工业控制台 (Copilot) industrial console with 10.4touch screen (Copilot)
标准设备存取口数量	Number of Bays	最多3个, 在地面上, 可位于同侧 up to 3, also above ground level and on the same side
其他	Others	最低能耗、自动称重、托盘上物料高度灵活可变、承重结构采用镀锌钢板、钢丝皮带传动、每侧 6 个定位轮的升降机导向系统、可混合使用不同负载的托盘 Minimal energy consumption、Automatic return tray weight check、Dynamic tray storage height、Load-bearing structure in galvanised steel、Eagle steel-reinforced toothed belt transmission、Elevator guide system with 6 rollers per side、Multiple payload tray management

## DDYF-30 堆垛机

### DDYF-30 STACKING MACHINE

#### 产品介绍 INTRODUCTION

采用货叉或串杆作为取物装置, 在仓库、车间等处提取、搬运和堆垛或从高层货架上取放单元货物的专用起重机。它是一种仓储设备。

是立体仓库中最重要的起重运输设备, 是代表智能立体仓库特征的标志。

主要作用是在立体仓库的通道内来回运行, 将位于巷道口的货物存入货架的货格, 或者取出货格内的货物运送到巷道口。

A specialized crane that uses forks or string rods as the load-picking device to take out, transport, and stack unit loads in warehouses, workshops, and other locations, or to retrieve and place unit loads from high-level racks. It is a storage equipment. It is the most important lifting and transportation equipment in AS/RS, and it is a symbol representing the characteristics of the intelligent three-dimensional warehouse. Its main function is to travel back and forth within the aisles of AS/RS, depositing goods located at the aisle entrance into the storage bins of the racks, or retrieving goods from the storage bins and transporting them to the aisle entrance.



#### 特性 FEATHER

- **作业效率高:** 堆垛机是立体库的专用设备, 具有较高的搬运速度和货物存取速度, 可在短时间内完成出入库作业, 堆垛机的最高运行速度可以达到500m/min。
- **提高仓库利用率:** 堆垛机自身尺寸小, 可在宽度较小的巷道内运行, 同时适合高层货架作业, 可提高仓库的利用率。
- **自动化程度高:** 堆垛机可实现远程控制, 作业过程无须人工干预, 自动化程度高, 便于管理。
- **稳定性好:** 堆垛机具有很高的可靠性, 工作时具有良好的稳定性。
- **High operational efficiency:** The stacker crane is a specialized equipment for AS/RS, featuring high handling and cargo access speeds, enabling the completion of inbound and outbound operations within a short period of time. The maximum operating speed of the stacker crane can reach up to 500m/min.
- **Improve warehouse utilization:** The stacker crane, with its small size, can operate within narrow aisles and is also suitable for high-level rack operations, thereby enhancing the utilization rate of the warehouse.
- **High degree of automation:** The stacker can be remotely controlled, eliminating the need for manual intervention during the operation process. It boasts a high degree of automation, facilitating management.
- **Good stability:** The stacker crane has high reliability and good stability during operation.

#### 技术参数 SPECIFICATIONS

型 号	Type	LTKYF-1000
额定起重量	Rated Lifting Capacity	500~2000kg
运行速度	Running Speed	4~300m/min
加速度	Acceleration	≤2.5m/s <sup>2</sup>
货叉伸缩速度	Fork Telescoping Speed	4~60m/min
起升高度	Lifting Height	2m~10m
货叉伸缩距离	Fork Extension Distance	1m~3m
适应垛板尺寸	Adapt To The Size of The Stacking Board	850 × 850mm~1250 × 1250mm
水平定位精度	Horizontal Positioning Accuracy	± 5mm
垂直定位精度	Vertical Positioning Accuracy	± 5mm
货叉起升电机功率	Fork Lifting Motor Power	2~15kW
变频器功率	Inverter Power	3~30kW
货叉最大回转角度	Maximum Turning Angle of The Fork	± 90° 或 ± 180°
货叉最大水平倾角	Maximum Horizontal Inclination Angle of The Fork	± 5° 至 ± 10°

## SSYF-60 输送线 SSYF-60 CONVEYOR LINE

### 产品介绍 INTRODUCTION

SSYF-60 输送线是指能够输送单件重量很大的物料, 或承受较大的冲击载荷的机械。适用于各类箱、包、托盘等物料的输送。散料、小件物品或不规则的物品需放在托盘上或周转箱内输送。

SSYF-60 Conveyor line refers to a machine capable of transporting materials with a large single piece weight or withstanding significant impact loads. It is suitable for the conveyance of various types of boxes, bags, pallets, and other unit loads. Bulk materials, small items, or irregular items need to be placed on pallets or conveyed within turnover boxes.

### 特性 FEATHER

输送线之间易于衔接, 可用多条线及其它输送设备或专机组成了复杂的物流输送系统以及分流合流系统, 完成多方面的工艺需要。

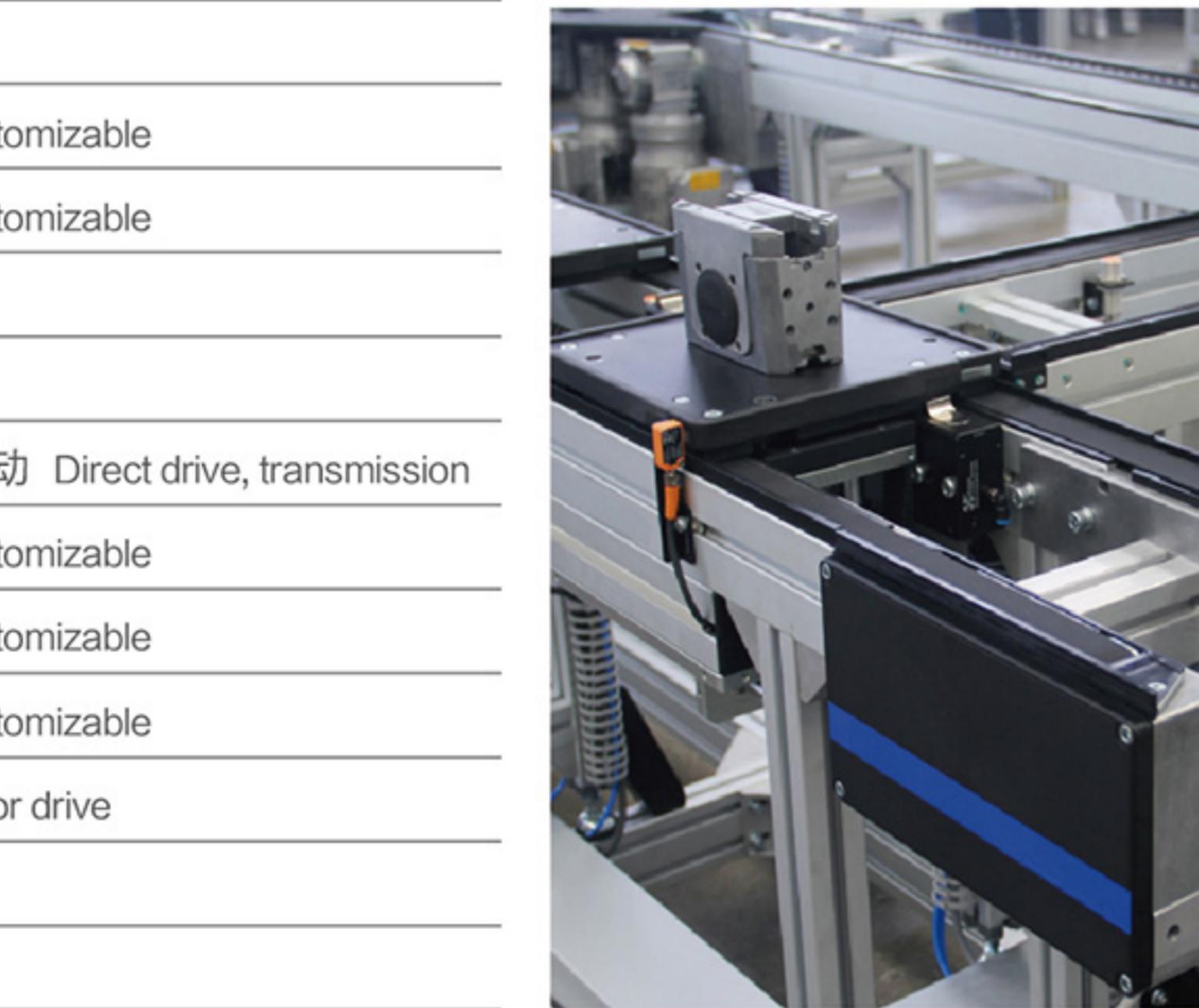
定制输送线请确认以下技术参数:

- 1、输送物体的长度、宽度和高度;
- 2、每一输送单元的重量;
- 3、输送物的底部状况;
- 4、有无特殊工作环境上的要求 (比如: 湿度, 高温, 化学品的影响等);
- 5、输送机属于无动力式或电机带动式。为确保货物能够平稳输送, 必须在任何时间点都至少有三个辊筒与输送物保持接触。

对软袋包装物必要时应加托盘输送。

### 技术参数 SPECIFICATIONS

型号	Type	SSYF-60	
输送量	Conveying Capacity	可定制	Customizable
承载能力	Carrying Capacity	可定制	Customizable
输送速度	Conveying Speed	1~4m/s	
加速度和减速度	Acceleration And Deceleration	0.1~0.5m/s <sup>2</sup>	
带宽或管径	Bandwidth Or Pipe Diameter	直接驱动、传动	Direct drive, transmission
输送长度	Conveying Length	可定制	Customizable
料斗或容器尺寸	Hopper Or Container Size	可定制	Customizable
电机功率	Motor Power	可定制	Customizable
驱动方式	Drive Mode	电机驱动	motor drive
倾斜角度	Tilt Angle	12~24°	
工作温度	Working Temperature	−15~40°C	



## QFYF-1000 潜伏机器人 QFYF-1000 LATENT ROBOT



### 产品介绍 INTRODUCTION

QFYF-1000 产品是以举升方式为特点的国内领先的潜伏移动机器人系列产品之一, 在运动性能与安全防护方面具有同行业领先的技术质量优势, 助力客户创造更安全、更高效的工作环境, 打造更具性价比的生产力。为客户建设智能工厂、智能物流提供柔性实用的行业解决方案, 智慧领航物流变革。

The QFYF-1000 product is one of the leading domestic series of latent mobile robots characterized by lifting methods. It boasts industry-leading technical quality advantages in terms of motion performance and safety protection, helping customers create a safer and more efficient working environment and build more cost-effective productivity. It provides flexible and practical industry solutions for customers to build Intelligent factories and intelligent logistics, leading the logistics transformation with wisdom.

### 特性 FEATHER

- **自主定位导航:**  
采用惯性导航、激光SLAM 导航、纹理导航等技术实现精确定位;
- **柔性运动控制:**  
采用双轮差速驱动, 支持前进、后退、旋转等运动控制, 运动过程平滑柔顺;
- **智能电源管理:**  
支持多等级电量阈值控制, 低电量时自主充电, 完成充电后自主返回工作;
- **多重安全防护:**  
前置激光避障, 安装高度188mm, 开角260°, 最大检测范围25m, 气动碰撞检测, 急停按钮等多级安全防护, 实现安全可靠的运动控制;
- **大型货物搬运:**  
支持1000kg 货物举升、搬运、旋转、下放;
- **设备状态指示:**  
支持触控屏、声光告警提示设备状态;
- **无线网络通信:**  
支持WIFI 网络通信和无缝漫游, 网络覆盖区域无障碍运行。

### 技术参数 SPECIFICATIONS

型号	Type	QFYF-1000	电池容量	Battery Capacity	40Ah
旋转直径	Rotating Diameter	1200mm	充电循环次数	Number of Charging Cycles	完全充放电1500次 Fully charged and discharged 1500 times
举升高度	Lifting Height	60mm			
载重	Load Capacity	1000kg	工作时间	Working Hours	8h
运行速度	Running Speed	1.8m/s	完全放电后	Charging Duration	
加速度	Acceleration	0.6m/s <sup>2</sup>	充电时长	After Full Discharge	≤1.5h
朝向精度	Orientation Accuracy	±1°	外形尺寸	Overall Dimensions	L1150 × W820 × H256mm
停止精度	Stop Accuracy	±10mm	重量	Weight	185kg
电源	Power Supply	48v			

## 料箱机器人 MATERIAL BOX ROBOT



### 产品介绍 INTRODUCTION

料箱机器人系列产品支持一次性多箱转运，是料箱机器人主力产品，其模块化组件涵盖夹抱、勾拉、托举、复合等多种类型，可快速适配各行业载具和物料转运，满足各类场景需求。

The series of material box robots support one-time multi-box transfer and are the main products of material box robots. Their modular components cover various types such as clamping, hooking, lifting, and compounding, which can quickly adapt to carriers and material transfers in various industries to meet the needs of various scenarios.

### 特性 FEATHER

● **高适应性:**  
灵活选用组件形式，适配各行业典型载具；

满足0.2~10m作业需求；

单箱负载标配30kg、50kg，托举型最大支持100kg。

● **高效对接:**

高效率出入库：多箱搬运；

配合潜伏系列的VP方案适配爆品高命中率业务及异形件存储业务。

● **便捷易用:**

触屏操控：设备状态直观展示，触屏操控执行机构升降、伸缩等各类动作；

导航方式：支持VSLAM导航，LSLAM导航、纹理导航。

● **高安全性:**

360° 底盘避障，标配对角双激光全周防护；

支持配置低矮、悬空障碍物检测，实现720° 立体防护；

标配放货前异常物料检测、储位物料突出检测等功能，满足人员、

物料安全需求；

欧盟 CE 安全标准车型。

● **High adaptability:**  
Flexibly select component forms to adapt to typical vehicles across various industries;  
Meet the operational requirements of 0.2~10m;  
The standard load capacity for a single box is 30kg or 50kg, while the maximum lifting capacity is 100kg.

● **Efficient docking:**  
Efficient inbound and outbound operations: handling multiple boxes;  
Coordinate with the VP plan of the incubation series to adapt to high-hit-rate business and irregular-item storage business.

● **Convenient and easy to use:**  
Touch screen control: Intuitive display of device status, and touch screen control for executing various actions such as lifting, extending, and retracting of mechanisms;  
Navigation method: Supports VSLAM navigation, LSLAM Navigation and texture navigation;

● **High safety:**  
360° chassis obstacle avoidance, with diagonal dual laser full-perimeter protection as standard;  
Support the configuration of low and suspended obstacle detection, achieving 720° three-dimensional protection;  
Standard features include abnormal material detection before release, prominent material detection in storage locations, and other functions to meet personnel and material safety requirements;  
EU CE safety standard vehicle model.

### 技术参数 SPECIFICATIONS

型号 Type	LXYF-50A	充电循环次数 Number of Charging Cycles	完全充放电1500次 Fully charged and discharged 1500 times
旋转直径 Rotating Diameter	1600mm	工作时间 Working Hours	6~8h
举升高度 Lifting Height	200~5500mm	完全放电后充电时长 Charging Duration After Full Discharge	≤2h
载重 Load Capacity	300kg	外形尺寸 Overall Dimensions	1600 × 900 × 5815mm
运行速度 Running Speed	1.5m/s		
加速度 Acceleration	0.5m/s <sup>2</sup>		
朝向精度 Orientation Accuracy	±1°	重量 Weight	530kg
停止精度 Stop Accuracy	±10mm		

## SXYF-35 四向穿梭车 SXYF-35 SHUTTLE



### 产品介绍 INTRODUCTION

SXYF-35 穿梭车在仓储物流设备中主要有两种形式：穿梭车式出入库系统和穿梭车式仓储系统，以往复或者回环方式，在固定轨道上运行的台车，将货物运送到指定地点或接驳设备。配备有智能感应系统，能自动记忆原点位置，自动减速系统。

The SXYF-35 Shuttle mainly exists in two forms within warehouse logistics equipment: the shuttle car-style inbound and outbound system and the shuttle car-style storage system. These systems utilize trolleys that travel on fixed tracks in a reciprocating or circular manner, transporting goods to designated locations or connecting equipment. Equipped with an intelligent sensing system, they can automatically remember the original position and feature an automatic deceleration system.

### 特性 FEATHER

● **四向行驶:** 能够在平面内实现前进、后退、左转、右转四个方向的行驶，可在交叉轨道上沿纵向或横向轨道自由穿梭，不受场地限制，能抵达仓库内的任意一个货位。

● **精准定位:** 采用条形码和端点开关等定位技术，定位精度通常可达±5mm以内，即使在高速运行和复杂环境下，也能准确校正位置。

● **自动存取:** 可自动完成货物的取货和存货作业，通过托板顶升机构将托盘或货物托起进行搬运，到达目标货位后再下降托板完成放置。

● **承载多样:** 有托盘式和料箱式等不同类型，托盘式四向穿梭车可承载500kg~1.5T的货物，料箱式四向穿梭车一般用于承载较轻的料箱，载荷通常在50kg以内，能满足不同货物的搬运需求。

● **技术功能:** 自动换道换层、智能调度、智能监控、自动诊断、障碍物检测、机械防撞、急停按钮、防坠落装置。

● **Four-way driving:** Capable of driving in four directions within a plane: forward, backward, left, and right. It can freely shuttle along the longitudinal or transverse tracks on intersecting tracks, without being limited by the site, and can reach any storage location within the warehouse.

● **Precise positioning:** Utilizing positioning technologies such as barcodes and end switches, the positioning accuracy can typically reach within ±5mm, ensuring accurate position correction even under high-speed operation and complex environments.

● **Automatic storage and retrieval:** It can automatically complete the picking and inventory operations of goods. The pallet or goods are lifted by the pallet lifting mechanism for handling, and after reaching the target storage location, the pallet is lowered to complete the placement.

● **Versatile Load Capacity:** Available in different types such as pallet-type and tote-type, the pallet-type four-way shuttle can carry goods weighing between 500kg~1.5T, while the tote-type four-way shuttle is generally used to carry lighter totes with a load capacity typically within 50kg, meeting the handling needs of different goods.

● **Technical functions:** Automatic lane and floor changing, intelligent scheduling, intelligent monitoring, automatic diagnosis, obstacle detection, mechanical collision prevention, emergency stop button, anti-falling device.

### 技术参数 SPECIFICATIONS

型号 Type	SXYF-35	举升时间 Lifting Time	4s
额定载重 Rated Load Capacity	35kg、50kg、1.5T、1200kg	换向时间 Commutation Time	5s
托盘尺寸 Pallet Sizes	1200 × 1000mm 等 etc	工作温度 Operation Temperature	0~50° C
满载速度 Full Load Speed	1~2m/s	工作环境 Work Environment	常温、冷库等 Normal temperature, cold
空载速度 No-load Speed	2m/s	通讯方式 Communication Method	WiFi、遥控 WiFi, remote control
最大行驶速度 Maximum Driving Speed	4m/s	安全防护 Safety Protection	障碍物检测传感器、机械防撞机构、急停按钮等 Obstacle detection sensors, mechanical collision avoidance mechanisms, emergency stop
定位方式 Locate Mode	激光定位、二维码 + 编码器方式、RFID + 磁通量融合定位等 Laser positioning, QR code + encoder method, RFID + magnetic flux fusion positioning, etc	外形尺寸 Overall Dimensions	Obstacle detection sensors, mechanical collision avoidance mechanisms, emergency stop
定位精度 Positioning Accuracy	±1~±5mm	设备自重 Equipment Weight	230kg

## 堆高叉取机器人 FORKLIFT ROBOT



### 产品介绍 INTRODUCTION

堆高系列叉取机器人覆盖了1000kg到3000kg的负载范围需求,最高可实现5.5米的提升高度定制,专为机器人量身设计的车体厚度,大大减小了运行的通道宽度,有效提升了30%的物料存储空间。家族化的前脸设计和模块化组件通用率,在不同场景下,部件通用率可达80%。全系列获得全指令CE认证,是自动化方案首选产品系列。覆盖横梁式、驶入式、重力式货架,地堆和巷道式存储、线边物料和设备对接等多种场景。

The stacking series of forklift robots covers a load range requirement from 1000kg to 3000kg, with a maximum lifting height of 5.5 meters that can be customized. The specially designed body thickness for robots greatly reduces the operating channel width, effectively increasing material storage space by 30%. The family-style front design and modular component commonality rate, with component commonality rates up to 80% in different scenarios, make the entire series the preferred product series for automation solutions. It covers various scenarios such as beam-type, drive-in, gravity-type racks, ground stacking and aisle-type storage, as well as line-side material and equipment docking.

### 特性 FEATHER

#### ● 性能卓越:

高效运输:最高稳定运行速度1.5m/s;

载荷覆盖广:全自主设计,1000kg~3000kg;

安全可靠:360°立体感知,可识别各种环境和对象;

精确定位:毫米级别位置精度,激光与视觉融合定位。

#### ● 功能齐全:

载具识别:识别载具偏移自动叉取;

储位识别:储位有货识别,储位空间识别,储位高度识别;

储位偏移识别;

悬浮低矮检测:支持悬浮物和低矮障碍物检测。

#### ● 模式丰富:

场景丰富:覆盖高位存储、物料堆叠、密集存储等多种存储形式;

对接设备多样:与其它类型AMR、电梯、自动门、输送线等外设接驳

多种类型物料/载具适配方案:国内外多种类型栈板、料框、笼车、软包、

卷料、料筒、异形件。

#### ● Excellent performance:

Efficient transportation: Maximum stable operating speed of 1.5m/s; Wide load coverage: Fully independently designed, ranging from 1000kg to 3000kg;

Safe and reliable: 360° stereo perception, capable of recognizing various environments and objects;

Precise positioning: millimeter-level position accuracy, laser and vision fusion positioning.

#### ● Fully functional:

Vehicle identification: Identify vehicle offset and automatically fork and pick up;

Storage location identification: identification of goods availability in storage locations, identification of storage space, identification of storage height, and identification of storage offset;

Suspended low obstacle detection: Supports the detection of suspended objects and low obstacles.

#### ● Rich modes:

Rich scenarios: Covering various storage forms such as high-level storage, material stacking, and dense storage;

Diverse docking devices: It can interface with other types of AMR, elevators, automatic doors, conveyor lines, and other peripherals.

Multiple types of material/carrier adaptation solutions: It supports various types of pallets, material frames, cage cars, soft bags, rolls, material cylinders, and irregular-shaped items from both domestic and international sources.

## SJYF-100 视觉机器人 SJYF-100 VISION ROBOT

### 产品介绍 INTRODUCTION

SJYF-100 视觉导航机器人是以车间纯黄地标线、黄黑地标线为巡线模式的移动机器人,具有快速部署、操作简单、运行稳定、安装方便、无需参数设置、无需调度系统等特点。为客户建设智能工厂、智能物流提供柔性实用的行业解决方案。

The SJYF-100 visual navigation robot is a mobile robot that operates using pure yellow and yellow-black landmark lines in the workshop as its patrol mode. It features rapid deployment, simple operation, stable operation, convenient installation, no parameter setting, and no need for a scheduling system. It provides flexible and practical industry solutions for customers to build smart factories and intelligent logistics.



### 特性 FEATHER

#### ● 导航:

视觉引导,纯黄线、黄黑线,高精度的测量激光雷达,最小掉头直径120cm,最小站点间距20cm;

#### ● 运行能力:

上下双层载物台,前进、环线、90°直角转弯、暂停、永久停;

#### ● 设备状态指示:

开始按钮,急停按钮,自动按钮,触屏设置;

#### ● 充电方式:

手动充电或快换电池;

#### ● 安全防护:

激光雷达避障,避障距离0.3~0.5m,避障角度140°;

#### ● 运行场地:

室内平整场地。

#### ● Navigation:

Visual guidance, utilizing pure yellow and yellow-black lines, high-precision measurement lidar, with a minimum turning diameter of 120cm and a minimum station spacing of 20cm;

#### ● Operational capability:

Upper and lower dual-layer stages, forward, loop, 90° right-angle turn, pause, and permanent stop;

#### ● Equipment status indication:

Start button, emergency stop button, auto button, touch screen settings;

#### ● Charging method:

Manual charging or quick battery replacement;

#### ● Safety protection:

Lidar obstacle avoidance, with an obstacle avoidance distance of 0.3~0.5m and an obstacle avoidance angle of 140°;

#### ● Operating site:

Level the indoor floor.

### 技术参数 SPECIFICATIONS

型 号	Type	CCYF-600A	充 电 循 环 次 数	Number of Charging Cycles	完全充放电1500次 Fully charged and discharged 1500 times
最小转弯半径	Minimum Turning Radius	933mm			
举升高度	Lifting Height	1344mm	工 作 时 间	Working Hours	6~8h
载 重	Load Capacity	600kg	完全放电后 充 电 时 长	Charging Duration After Complete Discharge	≤1.5h
额定运行速度	Rated Running Speed	1.2m/s			
加速度	Acceleration	0.6m/s	外 形 尺 寸	Overall Dimensions	1656×990×1984mm
朝向精度	Orientation Accuracy	± 1°	重 量	Weight	700kg
停止精度	Stop Accuracy	± 10mm			

型 号	Type	SJYF-100	工 作 时 间	Working Hours	20h
载 重	Load Capacity	100kg			
运 行 速 度	Running Speed	0.2~0.7m/s	外 形 尺 寸	Overall Dimensions	
站 点 数 量	Number of Sites	21+21个			
电 源	Power Supply	DC24V			
电 池 容 量	Battery Capacity	20Ah	重 量	Weight	(单层) 32kg/(双层) 39kg
充 电 时 间	Charging Time	7~8h			(Single layer) 32kg / (Double layer) 39kg

## 工业机器人

### INDUSTRIAL ROBOT

#### 产品介绍 INTRODUCTION

工业机器人是面向工业领域的多关节机械手或多自由度机器装置。能按预设程序自动执行任务, 具备高重复性与精准度。广泛用于焊接、装配、搬运、喷涂等环节, 可大幅提升生产效率、保障产品质量, 降低人力成本与劳动风险。

Industrial robots are multi-joint manipulators or multi-degree-of-freedom machine devices designed for the industrial sector. They can automatically execute tasks according to preset programs, demonstrating high repeatability and precision. Widely used in welding, assembly, handling, painting, and other processes, they can significantly enhance production efficiency, ensure product quality, and reduce labor costs and risks.

#### 特性 FEATHER

##### ● 高精度与高重复性:

重复定位精度可达  $\pm 0.05\text{mm}$ 。

##### ● 可编程性:

可以通过编程来设定机器人的动作路径、速度、力度等参数。适应多样化的生产需求。

##### ● 高负载能力:

大型搬运机器人, 能轻松搬运重达数吨的货物, 在物流、重型机械制造等领域发挥重要作用。

##### ● 环境适应性:

可以在高温、低温、粉尘、辐射等恶劣环境下稳定工作。在化工生产中, 机器人可代替人类在充满有害气体的环境中进行物料搬运和加工操作。

##### ● 感知能力:

配备视觉、力觉、触觉等传感器, 使机器人能够感知周围环境。在零件分拣中, 机器人通过视觉传感器识别不同形状和颜色的零件, 然后准确抓取。

#### 技术参数 SPECIFICATIONS

型号	Type	GYYF0808A
自由度	Freedom	6
放置方式	Placement Method	地面安装、吊顶安装 Ground installation, ceiling installation 地面安装、吊顶安装 Ground installation, ceiling installation
最大动作速度	Maximum Movement Speed	J1轴axis 210° /sec
		J2轴axis 210° /sec
		J3轴axis 255° /sec
		J4轴axis 410° /sec
		J5轴axis 550° /sec
		J6轴axis 375° /sec
		J1轴axis $\pm 170^\circ$
最大动作范围	Maximum Range of Motion	J2轴axis $-145^\circ \sim +80^\circ$
		J3轴axis $-70^\circ \sim +180^\circ$
		J4轴axis $\pm 180^\circ$
		J5轴axis $\pm 130^\circ$
		J6轴axis $\pm 360^\circ$
		827mm
最大活动半径	Maximum Activity Radius	827mm
		8kg
		J4轴axis 16.6N · m
容许力矩	Allowable Torque	J5轴axis 16.6N · m
		J6轴axis 9.6N · m
		$\pm 0.05\text{mm}$
重复定位精度	Repeatable Positioning Accuracy	$\pm 0.05\text{mm}$
机器人底座尺寸	Robot Base Size	200 × 300mm
防护等级	Protection Level	IP65
本体重量	Body Weight	约42kg



## KZYF-10 空中轨道运输系统

### KZYF-10 AERIAL TRACK TRANSPORTATION SYSTEM

#### 产品介绍 INTRODUCTION

KZYF-10 空中轨道运输系统通常由轨道、小车、驱动装置、控制装置、供电装置等组成。轨道安装在高处, 小车通过悬挂装置与轨道连接, 驱动装置带动小车在轨道上运行, 控制装置实现对小车的速度、位置、动作等的精确控制, 供电装置为小车及相关设备提供电力。

The KZYF-10 aerial track transportation system typically consists of a track, a trolley, a drive device, a control device, a power supply device, etc. The track is installed at a high location, and the trolley is connected to the track via a suspension device. The drive device drives the trolley to run on the track, while the control device precisely controls the speed, position, and movement of the trolley. The power supply device provides power for the trolley and related equipment.



#### 特性 FEATHER

##### ● 高效输送:

运行速度快, 且小车可按不同速度行驶或变换速度, 能实现高效的物料输送, 提高生产效率。

##### ● 作业效率高:

具备组织生产、自动分岔及合流、自动输送、空中贮存、自动积放、自动认址、准确定位、故障自诊断、远程监控等功能, 可减少人工干预, 降低劳动强度, 提高生产的准确性和稳定性。

##### ● 节省空间:

采用空中悬挂设计, 不占用地面空间, 能充分利用仓库和工厂的立体空间, 提高空间利用率。

##### ● 灵活多变:

采用模块化设计, 可根据实际需求灵活配置轨道布局, 适应不同的生产流程和场地环境。部分 EMS 系统的小车还支持多种通信模式, 可自由适配切换, 灵活应对不同工况。

##### ● 安全可靠:

配备多种安全保护装置, 如防脱轨机构、多重防撞机制、消防断开机构等。同时, 一些系统还能通过高精度传感器实时监测提升架位置, 确保物料搬运的精准定位与稳定提升, 减少安全隐患。

##### ● Efficient conveyance:

With fast operating speeds, and the ability for the trolleys to travel or change speeds, efficient material conveyance can be achieved, thereby enhancing production efficiency.

##### ● High operational efficiency:

It possesses functions such as organizing production, automatic branching and merging, automatic conveying, aerial storage, automatic accumulation and release, automatic addressing, precise positioning, fault self-diagnosis, and remote monitoring. These functions can reduce manual intervention, lower labor intensity, and enhance the accuracy and stability of production.

##### ● Space-saving:

Adopting an aerial suspension design, it does not occupy ground space and can fully utilize the three-dimensional space of warehouses and factories, improving space utilization.

##### ● Flexible and adaptable:

Adopting a modular design, the track layout can be flexibly configured according to actual needs, adapting to different production processes and site environments. Some trolleys in the EMS system also support multiple communication modes, allowing for free adaptation and switching to flexibly cope with different working conditions.

##### ● Safe and reliable:

Equipped with various safety protection devices, such as derailment prevention mechanisms, multiple collision avoidance systems, and fire disconnect mechanisms. Additionally, some systems can monitor the position of the lifting frame in real-time through high-precision sensors, ensuring precise positioning and stable lifting of materials, thereby reducing potential safety hazards.

#### 技术参数 SPECIFICATIONS

型号	Type	KZYF-10
轨道跨度	Track Span	自定义 customize
轨道坡度	Track Grade	30~60% 30% ~ 60%
车辆速度	Vehicle Speed	1~10 m/s 1 ~ 10 meters per second
车辆自重	Vehicle Weight	自定义 customize
供电电压	Supply Voltage	自定义 customize
追踪监控	Tracking and Monitoring	自定义 customize
车辆尺寸	Vehicle Size	长2~10米 宽1~3米 高1.5~4米 2~10 meters in length 1~3 meters in width 1.5~4 meters in height

## SWYF-300 室内外物流机器人 SNYF-300 INDOOR AND OUTDOOR LOGISTICS ROBOT

### 产品介绍 INTRODUCTION

SWYF-300 室内外物流机器人系统集多线激光、视觉摄像头、惯性导航设备、多功能底盘等多设备于一体，采用多传感器自适应融合算法、环境认知算法、路径规划算法、高可靠的控制算法结合，能够实现自主导航定位、自主避障、自动充电、自由规划路线、多车智能调度等强大功能，是一款室内外导航的AMR，代替人工完成各类货物运输，为企业节约物流管理人力成本，提高配送效率。

The SNYF-300 indoor and outdoor logistics robot, Hacint intelligent logistics robot system, integrates multiple devices such as multi-line lasers, visual cameras, inertial navigation devices, and multi-functional chassis. It employs a multi-sensor adaptive fusion algorithm, environmental cognition algorithm, path planning algorithm, and highly reliable control algorithm, enabling powerful functions such as autonomous navigation and positioning, autonomous obstacle avoidance, automatic charging, free route planning, and intelligent multi-vehicle scheduling. It is an AMR for indoor and outdoor navigation, replacing manual labor in various cargo transportation tasks, saving enterprises labor costs in logistics management, and improving distribution efficiency.



### 特性 FEATHER

- **无人驾驶:**  
自主导航定位、路径规划、智能避障；  
业界领先的自动驾驶技术，可实现无人物流车辆自主规划、自主感知避障的多种功能。
- **灵活部署:**  
软硬件系统化集成，可快速、灵活部署于物流作业区域，无需场景/线路的改造。
- **场景广泛:**  
适应多种复杂工况以及恶劣天气，适配多种强度与节奏的物流作业需求。
- **多重安全:**  
软硬件多重安全冗余机制+远程监控，严格保障车辆运输安全与货物安全。
- **便捷易用:**  
面向基层作业人员设计，开发简洁易用的人机交互系统，实现高效的人机协同。
- **系统升级:**  
具备自动驾驶系统自我提升能力，可持续开放并强化更多自动驾驶功能、软件和应用。

- **Driverless:**  
Autonomous navigation and positioning, path planning, intelligent obstacle avoidance  
Industry-leading autonomous driving technology, capable of enabling various functions such as autonomous planning and obstacle avoidance for unmanned logistics vehicles.
- **Flexible deployment:**  
The software and hardware are systematically integrated, allowing for rapid and flexible deployment in logistics operation areas without requiring specific scenarios/routes or modifications.
- **Wide range of scenarios:**  
It can adapt to various complex working conditions and adverse weather, and meet the logistics operation needs of different intensities and rhythms.
- **Multiple security:**  
The combination of hardware and software multiple safety redundancy mechanisms, coupled with remote monitoring, strictly ensures the safety of vehicle transportation and cargo security.
- **Convenient and easy-to-use:**  
Design and develop a concise and easy-to-use human-computer interaction system tailored for grassroots operators, enabling efficient human-machine collaboration.
- **System upgrade:**  
It has the self-improvement ability of the auto drive system, and can continuously open up and strengthen more auto drive functions, software, and applications.

### 技术参数 SPECIFICATIONS

型号	Type	SWYF-300	行驶最大速度	Maximum Driving Speed	18km/h
导航方式	Navigation Method	3D激光导航方式 3D laser navigation method	满载爬坡时 坡度	Gradient During Full-load Climbing	≤20%
定位导航精度	Positioning and Navigation Accuracy	≤10cm	涉水深度	Wading Depth	≥120mm
定点停靠精度	Fixed-point Docking Accuracy	≤10cm	续航时间	Endurance	8小时 hours
主动避障的	Trigger Range of Active Obstacle Avoidance	≥0.5m	充电时间	Charging Time	3小时 (分线充及接驳式充电) 3 hours (split charging and transfer charging)
载重	Load Capacity	300kg	工作温度	Operation Temperature	-10°C~55°C
满载牵引量	Full-load Traction Capacity	1.4T	IP等级	IP GRADE	IP65

## 智能物流系统集成解决方案 INTELLIGENT LOGISTICS SYSTEM INTEGRATION SOLUTION



### 智能物流 INTELLIGENT LOGISTICS



库存周转率提高 20%-35% Inventory turnover rate increases by 20%-35%	仓储空间利用率提升 15%-25% Warehouse space utilization rate increases by 15%-25%	配送准时率提升至 98%以上 Delivery punctuality rate Increases to more than 98%	订单处理时间缩短 30%-50% Order processing time is shortened by 30%-50%	运输成本减少 10%-30% Transportation costs are reduced by 10%-30%
--	---	---	--	--

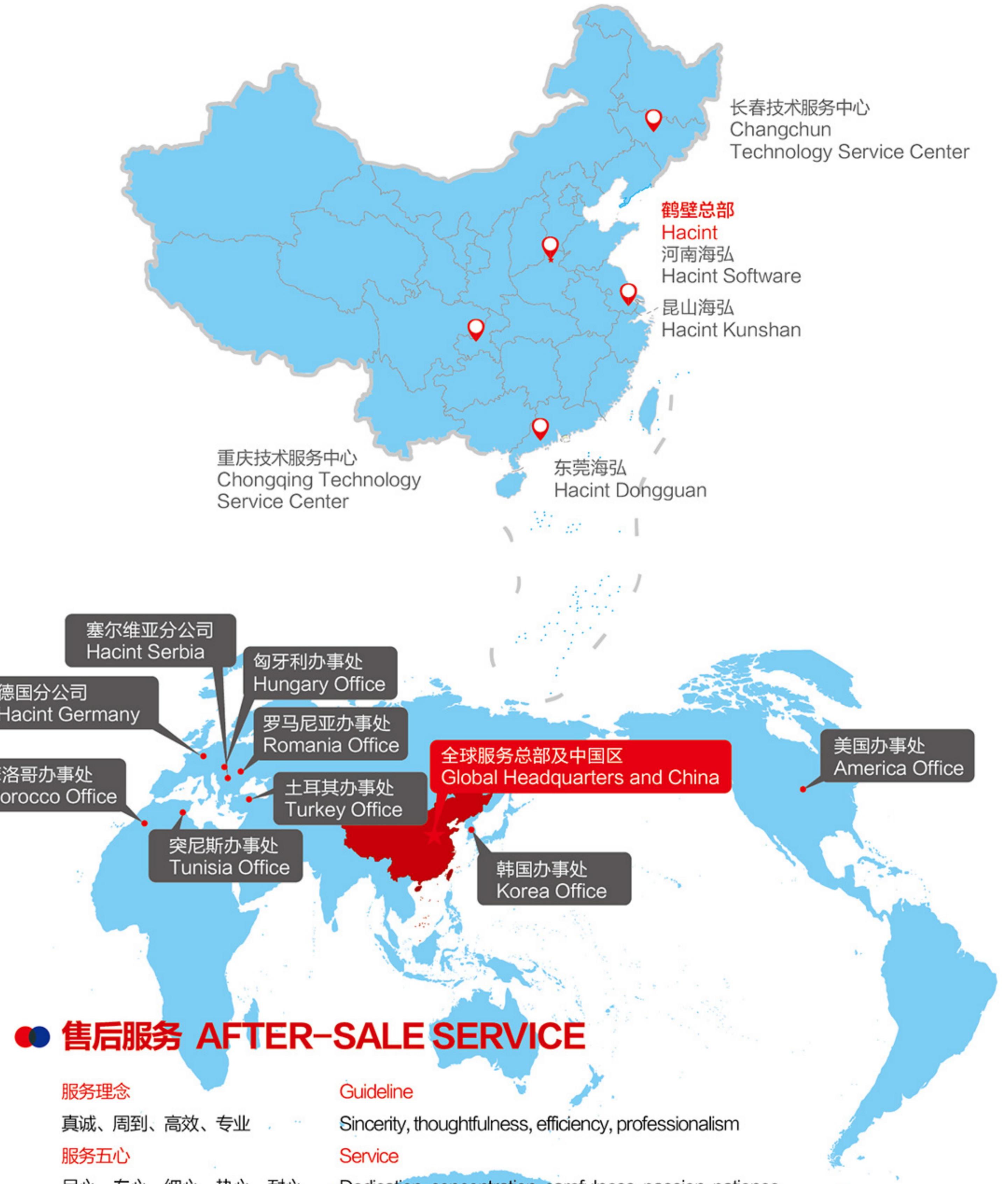
## 应用案例 APPLICATION CASES

某全球知名注塑企业通过引进HMES海弘智造信息系统, 对200余台设备进行设备采集, 实现MES远程监控设备状态; 并与AGV调度系统集成, 通过MES对AGV车辆下发搬运任务, 提升生产作业效率, 实现工厂数字化管理, 无人化搬运。

The Injection Molding Business Unit of a globally renowned enterprise has introduced the HMES Intelligent Manufacturing Information System to collect data from more than 200 pieces of equipment. This enables the MES to remotely monitor the status of the equipment. Additionally, it has been integrated with the AGV dispatching system. Through the MES, handling tasks are issued to AGV vehicles, which improves production operation efficiency, realizes digital management of the factory, and achieves unmanned material handling.



## ● 质量与服务保障 QUALITY AND SERVICE ASSURANCE



## ● 售后服务 AFTER-SALE SERVICE

### 服务理念

真诚、周到、高效、专业

### 服务五心

尽心、专心、细心、热心、耐心

### 服务质量

审批有规矩、服务全心全意

### 服务效率

远程“248”，现场“312”

### 服务宗旨

服务只有起点, 满意没有终点

### Guideline

Sincerity, thoughtfulness, efficiency, professionalism

### Service

Dedication, concentration, carefulness, passion, patience

### Quality

Service wholeheartedly

### Efficiency

“248” for long distance, “312” on site

### Purpose

Service is just the beginning, No end to satisfaction