



Automatic Storage System of Stacker
堆垛机自动化存储系统 >>

堆垛机自动化系统主要由货架、堆垛机系统、输送系统，WMS/WCS和电控制系统组成。根据客户具体仓储和输送要求，可以增加提升机系统、机器人系统等实现产线和存储无缝对接。堆垛机是立体仓库中最重要的起重运输设备，可大大提高仓库的面积和空间利用率。堆垛机接受计算机指令后，能在高层货架巷道中来回穿梭，把货物从巷道口出入库货台搬运到指定的货位中，或者把需要的货物从仓库中搬运至巷道口出入库货台，再配以相应的转运、输送设备通过计算机控制实现货物的自动出入库。



ASRS mainly includes racking system, crane system, conveyor system, electric control, WCS and WMS etc. In the same time, RGV system, Robot system or lift system are supplied to joint the production line and storage system together to offer fully automation solution as customer's requirement. Our crane will run in the aisles to load and unload the pallets from the racking, which can make best use of the warehouse. The conveyor system and robot packing system can support the palletizer of goods and transfer the pallet to storage racking or output area. All the system will be controlled by WMS, which can be connected to customer existing office management software, such as ERP, MAS or other.

型号			高度	提升货物重量	行走速度	行走加速度	提升速度	提升加速度
Model No.			height	Load capacity	Running speed	Running acceleration	Lifting Speed	Lifting acceleration
			meter	kg	m/min	m/s2	m/min	m/s2
单立柱铝合金高速堆垛机	Single aluminum upright high speed stacker crane	012	0<H= 8	0<W=100	0<V= 200	0<a= 0.8	0<R= 60	0<a=0.8
单立柱铝合金堆垛机	Single aluminum upright stacker crane	014	0<H= 10	0<W=100	0<V= 160	0<a= 0.5	0<R= 50	0<a=0.5
双立柱铝合金堆垛机	Double aluminum upright stacker crane	016	0<H= 12	0<W=200	0<V= 120	0<a= 0.33	0<R= 40	0<a=0.33
双立柱铝合金高速堆垛机	Double aluminum upright high speed stacker crane	018	0<H= 12	0<W=200	0<V= 200	0<a= 0.8	0<R= 60	0<a=0.8
小型堆垛机	Light duty stacker crane	021	0<H= 12	0<W=1000	0<V= 120	0<a= 0.33	0<R= 30	0<a=0.33
中型堆垛机	Medium duty stacker crane	020	0<H= 24	0<W=2000	0<V= 120	0<a= 0.33	0<R= 30	0<a=0.33
重型堆垛机	Heavy duty stacker crane	030	0<H= 30	0<W=3500	0<V= 120	0<a= 0.33	0<R= 30	0<a=0.33
			Note: The above stacking machines have corresponding turning models except 016and 018 The stacking machine should travel at the turning speed of 1/3 of the linear speed and the acceleration is zero;					

半自动化密集存储系统

Semiautomatic High Density Storage System



Pallet Shuttle Rack

穿梭车货架 >>

穿梭车货架是穿梭车结合人工叉车一起使用，把货物的存放和运输分开，通过无线遥控穿梭车完成货物存取；人工叉车完成货物运输。叉车不进入货物存放区，只在存储区端头作业，靠穿梭车将货物放入指定货位。货物存放指令由叉车操作员通过无线遥控器下发，操作员也可终止无线遥控穿梭车正在执行的动作。货架端头的第一货位就是叉车取放货物的位置，可实现货物的先进先出和先进后出两种作业模式。



The pallet shuttle rack is a semi-automatic and deep lane storage system. It consists in rack and mobile shuttle carts that are self-powered by battery. They run on the rails in each lane and to be controlled by wireless remote to loaded and downloaded the pallet from the rack system together with forklift. However, forklifts will not entry into the storage lanes but only works at the entrance, which make it different from DRIVE IN RACKING SYSTEM and in the mean time to offer high density, cost effective and time-saving storage solution.



半自动化密集存储系统

Semiautomatic High Density Storage System

Pallet Shuttle

穿梭车 >>



项目		基础数据	Item		Basics
最大载重量		Max1500kg	Load Capacity		Max1500kg
行走	速度	空载：0.9~1.0m/s，满载：0.58~0.75m/s	Drive	Speed	Empty：0.9~1.0m/s；Full load：0.58~0.75m/s
	行走加速度	≤0.5m/S ²		Accelerate	≤0.5m/S ²
	马达	有刷/无刷伺服电机24VDC 400W		Motor	Brushed Servo Motor 24VDC 400W
顶升	顶升高度	40mm	Lift	LiftHeight	40mm
	马达	有刷电机24VDC 370W		Motor	Brushed Servo Motor 24VDC 370W
定位方式/精度		行走定位：激光	Positioning mode / accuracy		Running:Laser
		托盘定位：激光			Pallets:Laser
		顶升定位：接近开关			Lift:Proximity Switches
货物探测		背景抑制光电	Pallet Detection		Back ground suppression photoelectricity
控制方式		S7-200/1200PLC	Control		S7-200/1200PLCProgrammable Controller
遥控器	工作频率433MHZ 通讯距离至少100米	Controller	Working Frequency 433MHZ, at least 100m communication distance		Two way communication, with LED screen
	双向通讯功能, 带液晶屏				
	使用温度：-30℃~+50℃；IP67				
通讯方式		以太网通讯	Communication		Ethernet
供电方式		高性能锂电池	Power		High Performance Lithium Batteries
电池参数		24V，50-60AH,使用时间≥8h，充电时间5-8 h，可反复充电次数：1000次	Battery		24v, 50-60AH, Working hours≥8h, Charging 5-8h, Chargeable: 1000times
速度控制方式		伺服控制，低速恒转矩	Speed Control		Servo-controlled, Low-speed constant torque
运行噪音水平		≤60db	Noise		≤60db
环境温度		-25~50℃	Temperature and Humidity		-25~ 50℃
防撞装置		端面安置聚氨酯缓冲条及防撞传感器	Anti-collision		Polyurethane cushion and set sensors.

智能AGV搬运机器人系统

Intelligent AGV System

Intelligent AGV System

智能AGV搬运机器人系统 >>

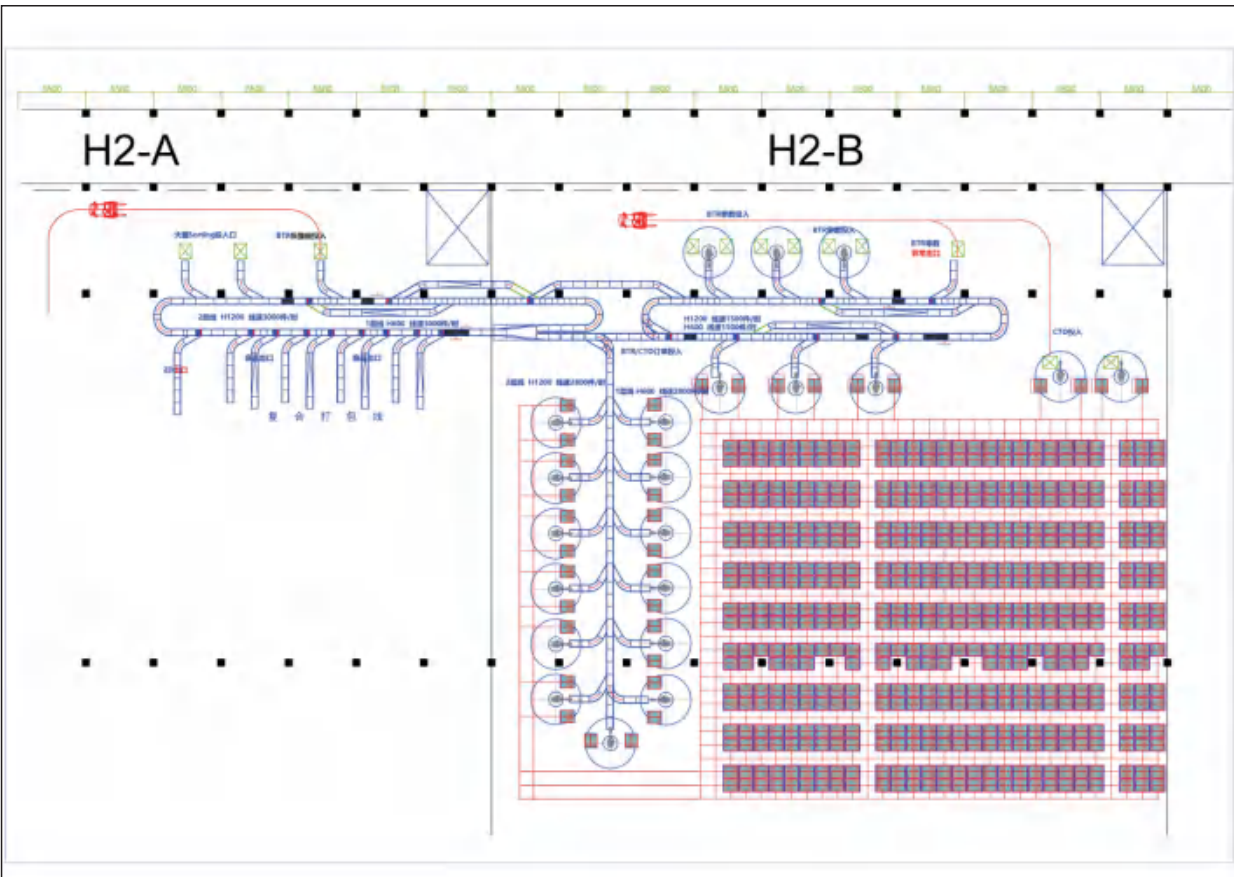
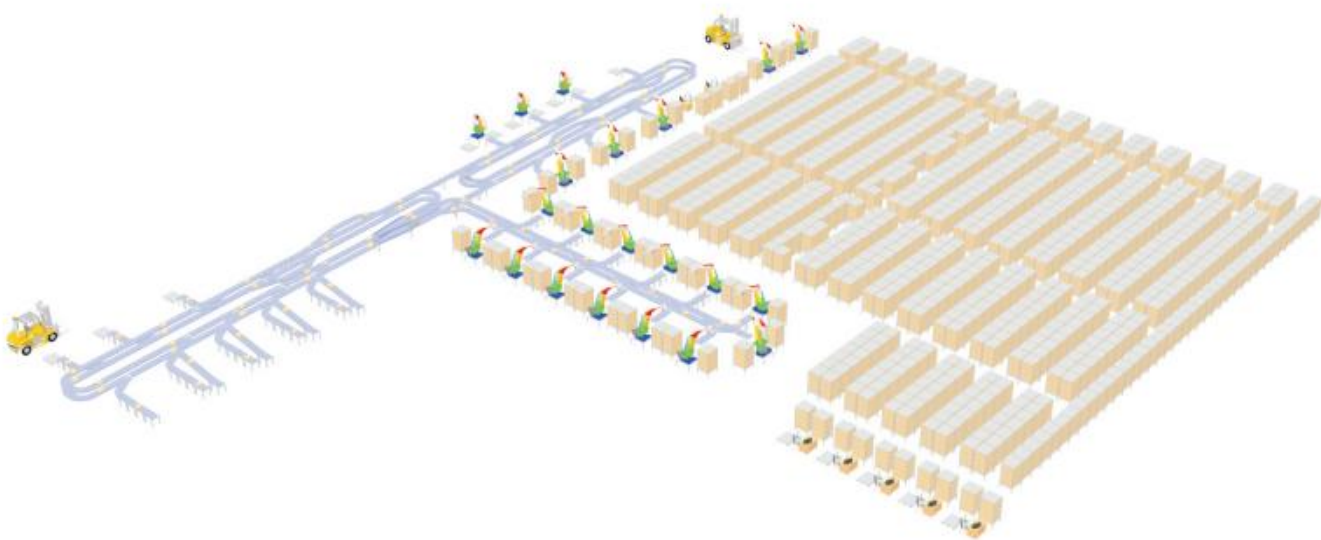
AGV自动化搬运系统涉及机械、电子、光学、计算机等多个领域，随着物流仓储系统的发展，越来越多的企业进行智能化改造。AGV作为高自动化、柔性化设备，它具有自动化程度高、应用灵活、安全可靠、无人操作、施工简单及维修方便等诸多优点，因而在智能物流仓储系统中得到了广泛应用。

AGV automatic handling system involves many fields such as machinery, electronics, optics, computer, etc. With the development of logistics and storage systems, more and more enterprises start the intelligently transformation. As a highly automated and flexible equipment, there are many advantages of our AGV handling system, such as high automation, flexible application, safe and reliable, unmanned operation, simple construction and convenient maintenance. It has been widely used in intelligent logistics storage systems.



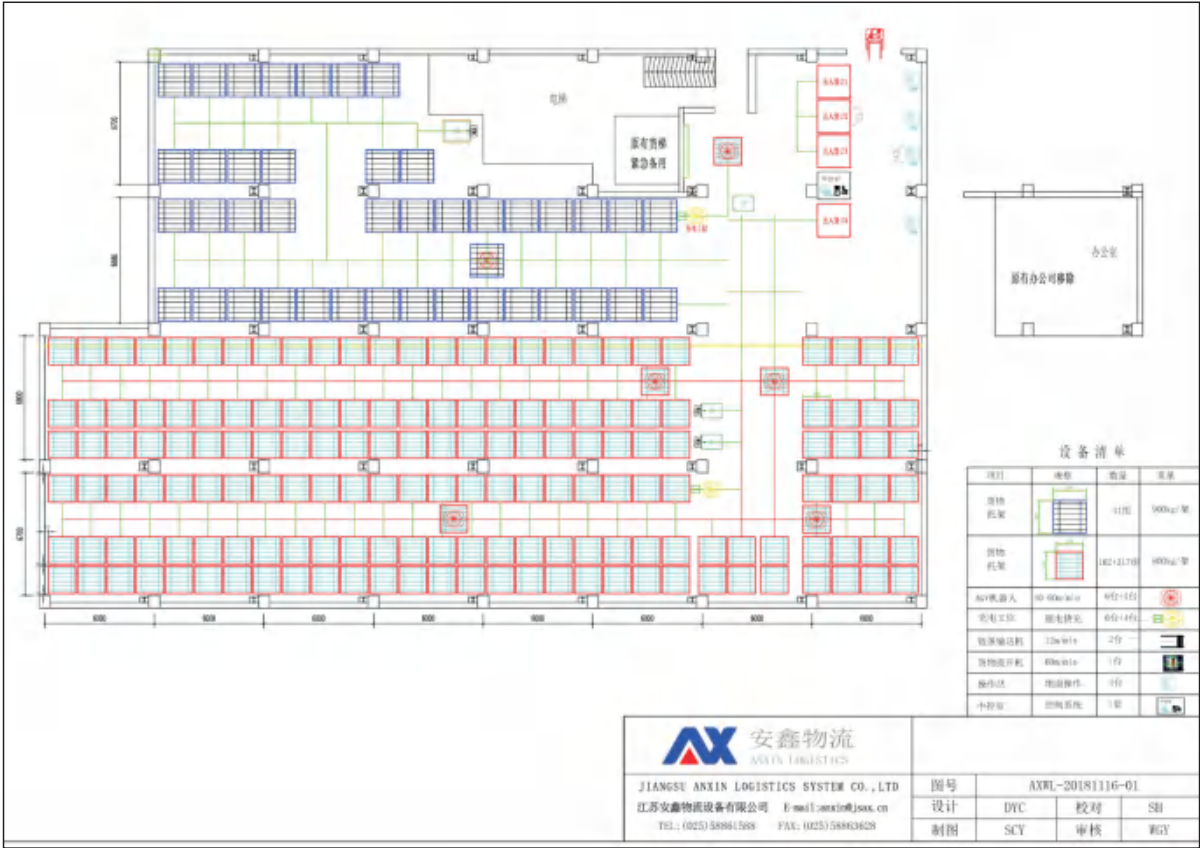
智能AGV搬运机器人系统项目介绍

Introduction of Intelligent AGV System Project



某纺织行业搬运系统

A Textile Industry Handling System

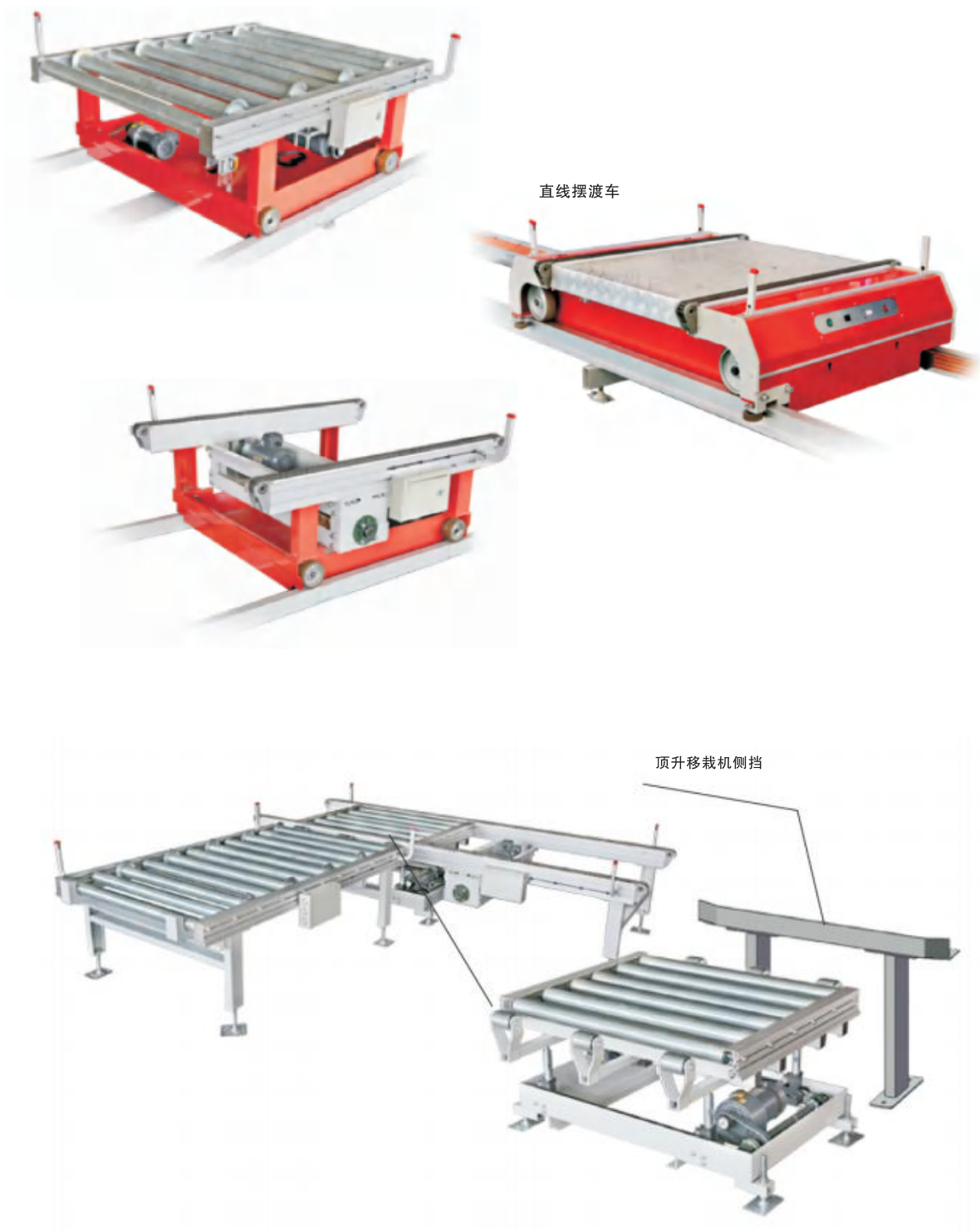




Robot Palletizer System
机器人系统 >>



输送系统 / Conveyor System



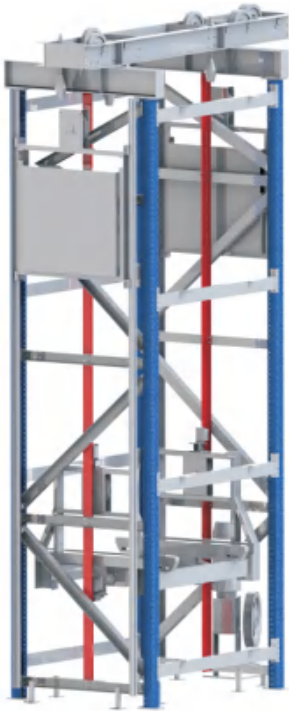
托盘整理机 / Pallet Collector



升降机 / Lift



换层机 / Level Shift



Transport Equipment

输送设备 >>

输送设备适用于各类箱、包、托盘等件货的输送，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。

Transport Equipment are used to transport bin, box or pallet to destination as workers need.. Simple structure, high reliable, easy maintain, quickly transport and Multi-species collinear shunt transport



WMS
仓库管理 >>

WMS是仓库管理系统(Warehouse Management System) 的缩写，主要包含以下图标的功能，有效控制并跟踪仓库业务的物流和成本管理全过程，实现或完善的企业仓储信息管理。

WMS is the warehouse management system abbreviation, which includes main functions in our diagram to effective control and tracking warehouse service’ s logistics and management cost, and to achieve or improve the enterprise warehousing information management.

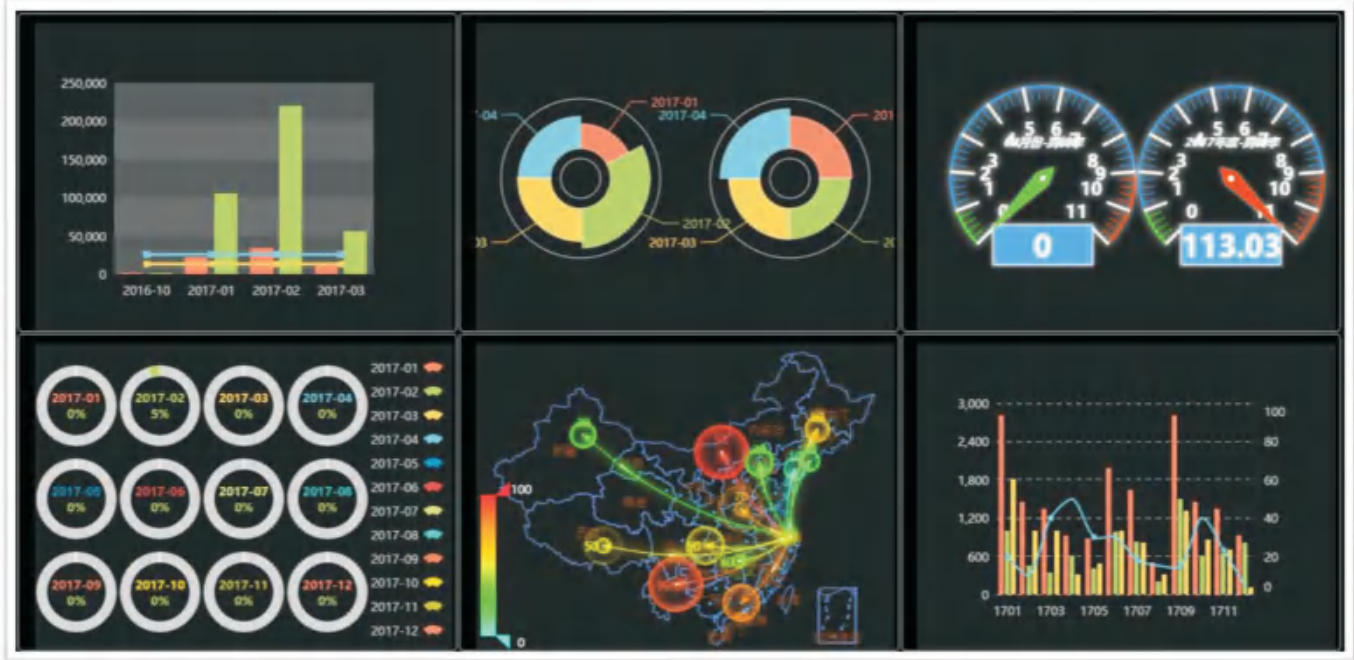
主要功能/ Main Function



主要特色/ Main Features



可视化/ visualization



电动移动式货架

Mobile Pallet Rack System

Mobile Pallet Rack System

电动移动式货架 >>

移动式托盘货架由托盘式货架演变而成，采用电机驱动和托盘货架相结合。易控制，安全可靠。每排货架有一个电机驱动，由装置于货架下的滚轮沿铺设于地面上的轨道移动。

Mobile Pallet Rack System—High Design with 100% Selective Rack System

Mobile Pallet rack systems are selective rack mounted on heavy duty bases, which are electrically driven on tracks mounted into floor slab. Mobile rack system is equipped with modern safety controls which meet all International safety standards .

