



Automatic Parking System

自动化停车系统



XJ Parking System Co., Ltd

XJ Parking System

许继停车系统有限公司始于1995年，是国内最早从事机械式立体停车库建设的专业公司之一。已经形成了从规划、设计、设备引进、制造、安装、调试和售后服务等一条龙的完整体系。公司致力于全自动机械立体停车库的推广和应用，并在国内首先推广具有当今世界先进水平的仓储式全自动车库设备，使人们对全自动机械立体停车库有了新的认识。

十年耕耘，十年磨砺，许继停车系统公司从无到有，从小到大，在创新中发展，在发展中不断创新，实现了多个行业第一：

第一个开发巷道堆垛式车库；

第一个推出平面移动车库；

第一个推广具有当今世界先进水平的仓储式停车设备；

第一个通过ISO9000质量体系认证；

第一个获得国家火炬计划项目；

第一个获得国家质量技术监督总局颁发的机械式停车设备设计、生产资质、安装资质、维修保养资质；

公司为中国机械停车协会副理事长单位、中国停车管理委员会会员及建设部停车技术开发与推广中心成员，并获得由国家技术质量监督总局颁发的机械式停车设备设计、生产资质、安装资质、维修保养资质，参与了国家多项机械停车行业标准的制定。

许继停车系统秉承“以客户为本，用完善的服务让许继产品为客户创造价值”的宗旨通过资源整合，培养了一支从事产品研发、销售、生产、工程、维护的高素质专业化、标准化的员工队伍，为用户及时提供车库咨询、规划设计、安装调试维修保养等全方位的服务，创造更好的停车空间，为中国停车行业的发展做出新的贡献。

XJ Group Corporation is a state large-scale Class 1 enterprise specializing in the development and production of automation equipments in electric power systems. It is one of Top Ten Mechanical Enterprises in China , one of the 100 Biggest Electrical Machinery and Equipment Producing Industries in China, one of Top Five State-owned Enterprise propagated by the government, and the first enterprise to pass the ISO9001 Quality System Certification in the field in 1996. It has two listed companies; XJ Electric Co.,Ltd and Tianyu Electric Co.,Ltd. XJ Parking System Co.,Ltd, a subsidiary of XJ Group Corporation, specializes in the development, production, sales and business of mechanical vertical parking systems, automatic control systems, steel structure, mechanical devices and other electromechanical products and the relevant training, consultancy, management services and maintenance services of the above products.

XJ Parking System Co.,Ltd, founded in 1995, is one of the earliest companies to engage itself in the construction of mechanical vertical parking systems, which forms a complete one-shop system including plan, design, e equipment introduction, manufacture, erection, testing and after-sale services. The company is dedicated to the promotion and application of the automatic mechanical vertical parking systems. It is the first to promote the depository parking systems with the world advanced level in China, which make the people have a new knowledge on the automatic parking systems.

From small to big, XJ Parking System Co.,Ltd has undergone continuous innovation and growth and achieved many No. 1 in many fields since its founding:

the first to develop the Tunnel Stacking Parking Systems;

the first to produce plane types of mobile garage ;

the first to promote the depository parking systems with the world advanced level in China;

the first to pass the ISO9000 Quality System Certification;

the first to get one of the State Torch Projects;

the first to acquire the qualifications for design, manufacture, erection, maintenance of mechanical parking systems authorized by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China .

As the vice-chairman of China Mechanical parking Association and the member of China Parking Management Committee and member of development and promotion center of parking system techniques under Construction Ministry of P.R.China, the company has acquired the qualifications for design, manufacture, erection, maintenance of mechanical parking systems authorized by General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China ,also taken part in the draft of the several national industry standards on the mechanical parking system.



研发队伍
Research and development team



全自动高速贴片生产线
Automatic SMT production line



钣金柔性生产线
“FIN-POWER” Sheet Metal Flexible Manufacturing System



生产车间现场
Production Workshop



全自动焊接机器人
Automatic Soldering Robot



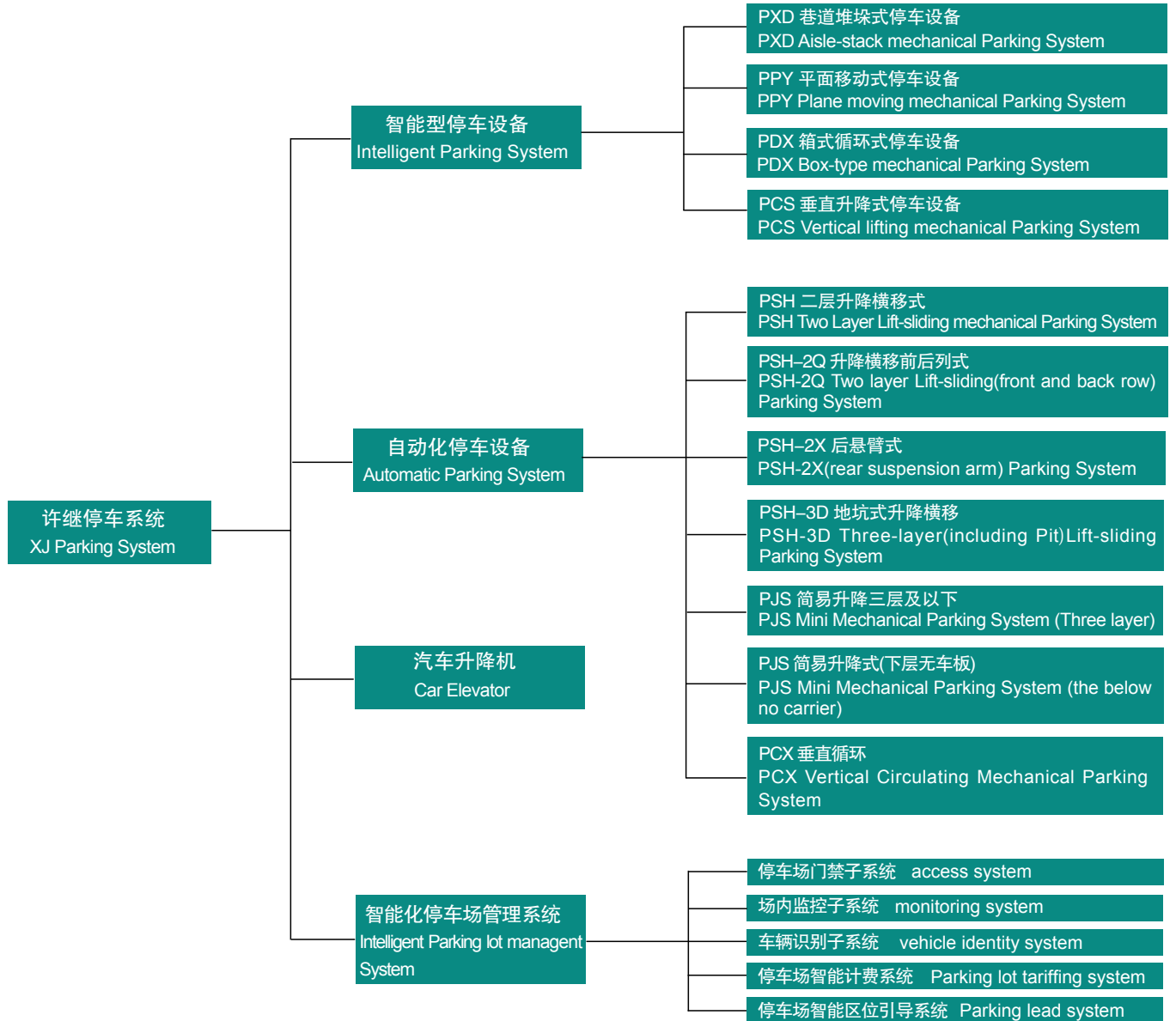
激光切割机
Laser Cutting Machine



ISO Certificates

许继停车系统产品分类

Classifications of XJ Parking Systems



XJ Parking System

自动化停车系统简介

Brief Introduction to Automatic Parking System



我公司自主设计的自动化停车设备，具有多项国家专利，在市场上已有过万个车位正在使用中。该产品对地形适应性较强，可根据现场情况为客户量身订做，也可对老停车场进行改造。

设备特点：

形式多样，对建筑适应能力强。

布局节省空间，能有效利用土地，节省更多空间。

拥有多种保护措施，性能可靠、安全系数高、便于维护。

按键或刷卡操作，方便、安全、迅速。

The automatic parking systems designed by our company have many national patents and more than 10 thousand parking spaces in the market are being used. Such systems have strong adaptability to the landform. The systems can be customized according to the site situation, and also is suitable for the restructuring of the old parking system.

Features:

Various types and strong adaptability to the buildings.

Saving the space in layout and effectively utilizing the land.

With more protection measures; reliable performance, high safety coefficient and convenient maintenance.

Pressing-key or swiping-card operation, which is convenient, safe and quick.



XJ Parking System

PJS型三层简易升降式停车设备 PJS-3 Mini Mechanical Parking System

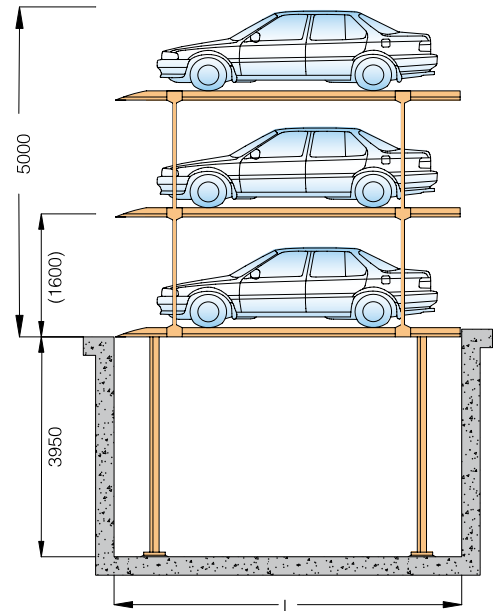
特征:

采用后悬臂式构造, 设备占用宽度最小, 无前立柱及链条阻挡, 存取车特别方便

Characteristic:

The rear suspension structure is adopted so that the system covers minimum width without the obstruction of the front column or chain and it is very convenient for car storage and retrieval.

项 目	Item	D	T
车 种	Kinds of Vehicle	大型车 Large vehicle	特大型车 Super large vehicle
停车 参数 Parameters for the vehicle	车长 Length mm	5000	5300
	车宽 Width mm	1850	1900
	车高 Height mm	1550	1550
	载重量 Weight Kg	1700	2000
电动机	Motor Kw	3.7	
驱动方式	Driving mode	油压或者链条驱动式 Hydraulic or chain	
存取车时间	Vehicle storage and retrieval time	约35-50秒 About 35-50 second	
操作方式	Operating mode	制动按钮 Braking button	
电源	Power source	380V/50Hz/3 φ	
安全装置 Safety devices	上下极限开关	光电开关	
	Upper and lower limit switch	Photo sensor	
	车轮定位杆	紧急停止开关	
	Wheel positioning rod	Emergency stop switch	
	防坠落装置	运转警示器	
	Anti-dumping device	Running alarm indicator	



备注:

Wo尺寸 = Wxn(单元数) + 400

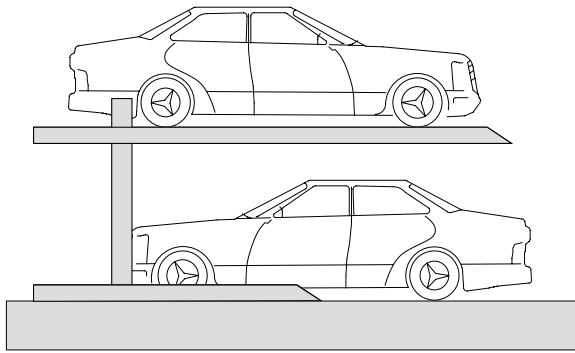
大型车 (Large vehicle) D: W=2500, Lo=5300

特大型车 (Super large vehicle) T: W=2600, Lo=5600



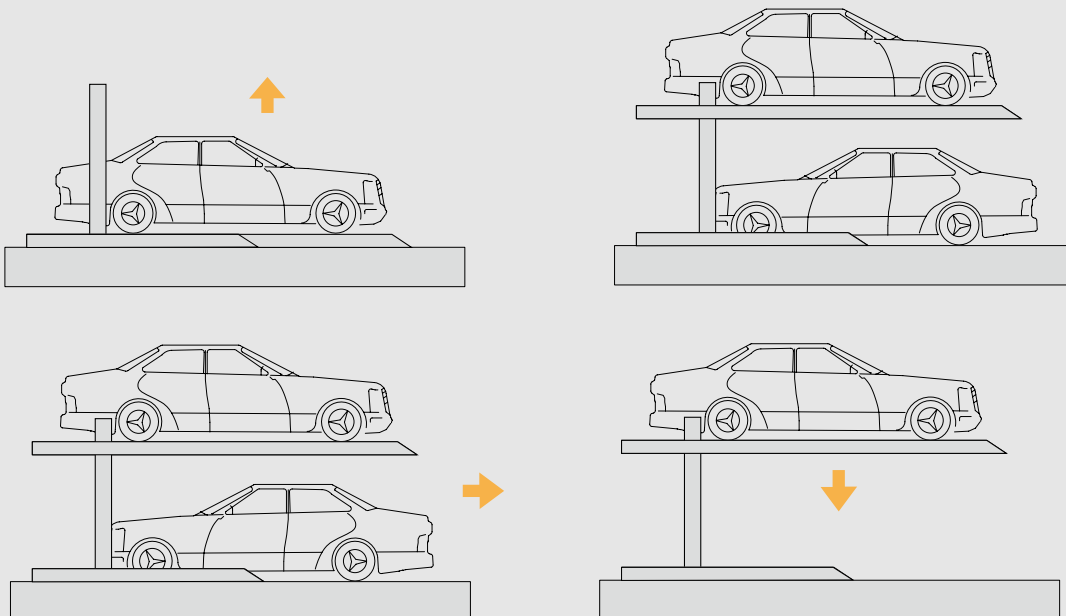
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PJS-2 型两层简易升降式停车设备 PJS-2 Two-layer Mini Parking System



设备宽 Width of the system	mm 2400
设备长 Length of the system	mm 5600
净高 Net height	mm ≥3600
空车尺寸 Dimension of the empty vehicle	mm 4800x1850x1550
空车重量 Weight of the empty vehicle	kg ≤1700
升降速度 Elevating speed	m/min 4.5
驱动方式 Driving mode	链条 chain
电源 Power source	3相380V/50Hz Three phase 380V

简易升降型停车系统出车动作
How the car moves out of the mini Parking System



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PSH 型升降横移式自动化停车设备 PSH Lift-sliding mechanical Parking System



该设备可创造出二~五层停车位，空间利用率最高，适用于平面空地。由链条或钢丝绳转动，运行平稳，噪声低，能耗低。

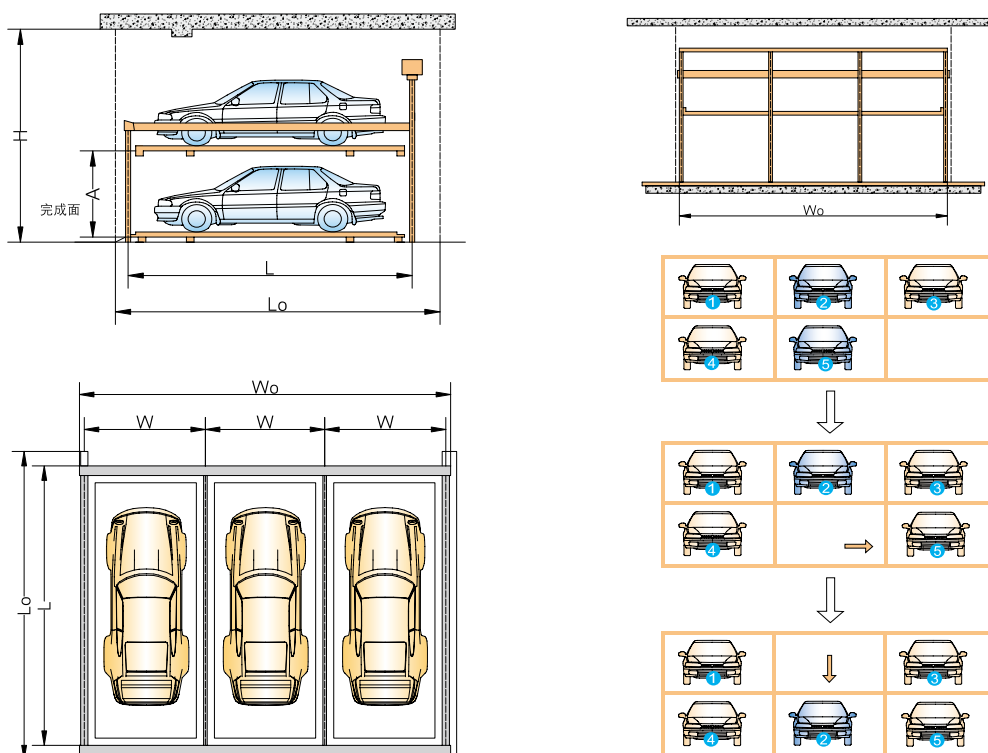
特性：

- 1、由下层车板左右横移，上层载车板升降实现存取车。
- 2、一次按钮即可顺序动作调出所需车位，可升级为智能刷卡操作。
- 3、钢构式结构，使用安全，设备寿命长。
- 4、室内外安装方便。
- 5、安全装置：极限开关、车轮档杆、安全挂钩、运转逾时控制、紧急停止开关、运转警示器、光电开关、链条护套、漏电装置、过负荷保护、驱动链护盖。

The system can provide 2~5-layer parking lots with high space utilization ratio, so it is suitable for the plane area. It is driven by chain or steel rope, so it is stable for operation, low in noise and energy consumption.

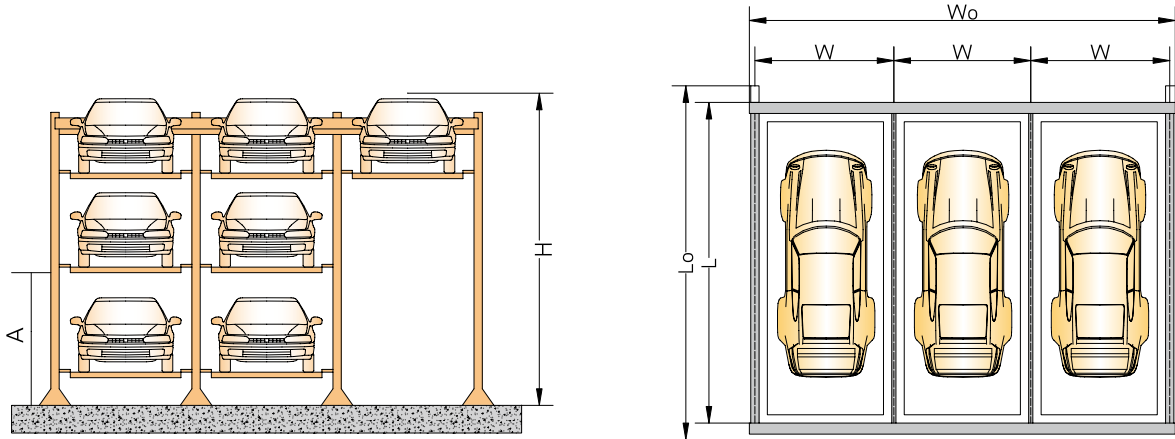
Characteristic:

1. Store and retrieve the car by lifting of the elevator and traveling of the cross-carrier;
2. Find the required parking units through sequence operation only by pressing the button one time; it can also be upgraded to be intelligent card-swiping operation;
3. Steel structure, which is safe and has long life;
4. Convenient for indoor and outdoor erection;
5. Safety devices: Limit switch, wheel barrier, safety hook, running time our control, emergency stop switch, running alarm, photo sensor, chain jacket, leakage device, overload protection and driving chain cover.



XJ Parking System

PSH 型升降横移式自动化停车设备 PSH Lift-sliding mechanical Parking System



PSH2.3.4.5层升降横移自动化停车设备 (参数表)
PSH2.3.4.5Lift-sliding mechanical Parking System

容车规格 Specifications for the car(mm)	5300x1900x1500/5000x1850x1550				
容车质量 weight for the car (kg)	2000/1700				
传送方式 Transmission mode	链条或钢丝绳 Chain or steel rope				
控制方式 Control mode	现场总线、PLC全自动控制 Field bus or PLC automatic control				
操作方式 Operation mode	按钮、触摸屏或IC卡控制 Button, touch screen or IC card				
升降速度 Elevating speed m/min	3 ~ 5				
横移速度 Horizontal Sliding speed m/min	7 ~ 10				
层数 Number of the layers	二层 Two layers	三层 Three layers	四层 Four layers	五层 Five layers	
单位数 Number of units 个	n				
车位数量 Number of the parking units 个	2n-1	3n-2	4n-3	5n-4	
设备尺寸 Dimension of the system (mm)	纵深 Depth L	5900/5600	6250/5950	6250/5950	6250/5950
	单元宽Unit width W	2500/2400	2600/2500	2600/2500	2600/2500
	总高 Total height H	3600/3650	5300	7000	8700
	总宽Total width Wo	Wxn+400			
出入层高Height of layer A	L+300	L+500		≥ 1850	

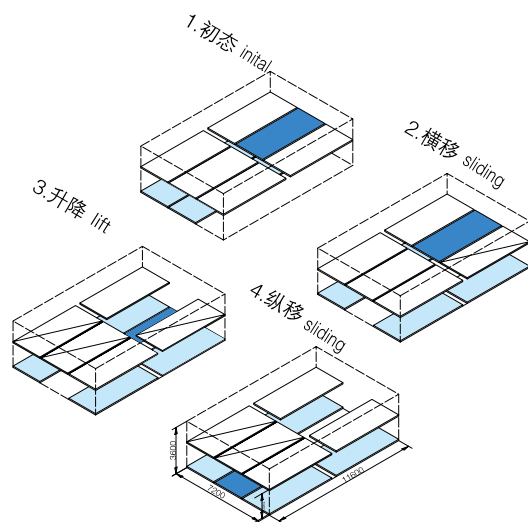
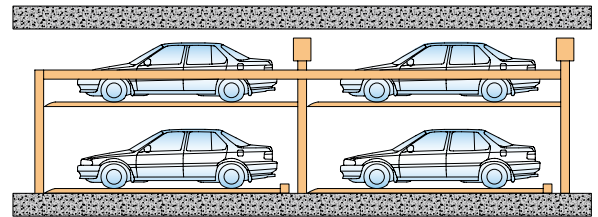
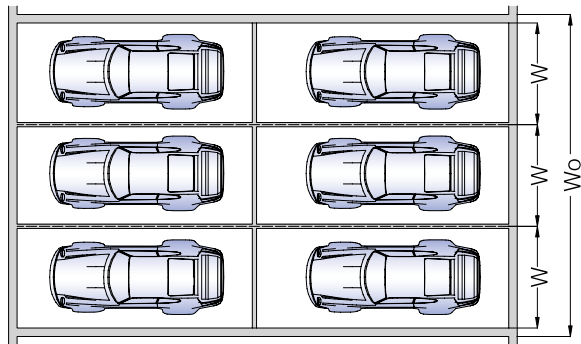
XJ Parking System

PSH-2Q 型两层升降横移式（前后列）自动化停车设备 PSH-2Q Two layer Lift-sliding (front and back row) Parking System



通过对设备的升降、横移和纵移的控制，特别对位于后排上、下层的车辆均可由设备驱动运送到前排位置，实现多排设备中车辆的立体存放及调度，方便用户存取。

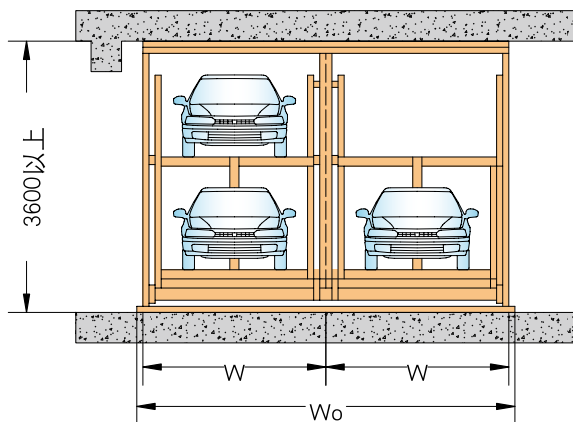
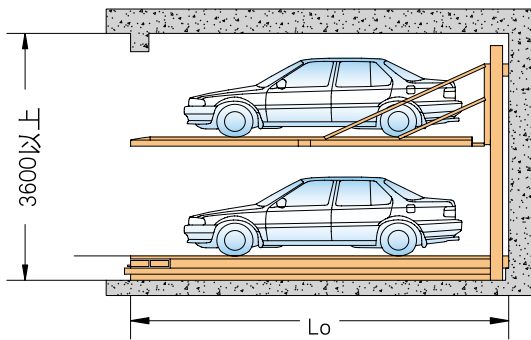
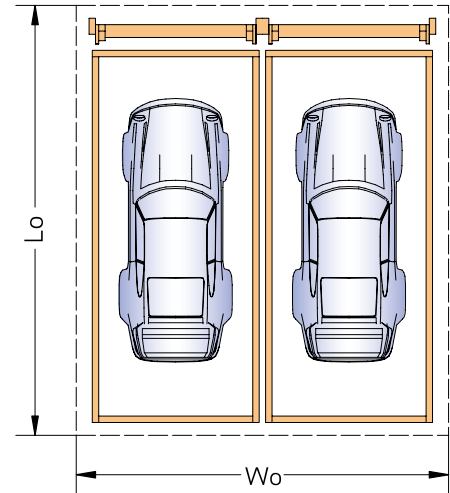
The upper and lower cars of back rows can be transported to the positions of front rows by controlling the lifting and sliding of the devices so as to realize the three-dimensional parking and dispatching of the cars, convenient for the car storage and retrieval.



型号名称 Type and Name	PSH-2Q型（前后列）停车设备	
容车规格 Specifications for the car (mm)	5000x1850x1550	
容车质量 Weight for the car (kg)	1700	
车位单元数 Number of the units (piece) 个	n	
车位数量 Number of the parking units (piece) 个	2x(2n-1)	
设备尺寸 Dimension of the system mm	纵深 Depth L	11800
	单元宽 Unit width W	2500
	总宽 Total width Wo	Wxn+400
	总高 Total height H	3800或3850(含坑240)
	出入层高 Height of the layer A	1850
传动方式 Transmission mode	链条传动 Chain	
控制方式 Control mode	现场总线或PLC全自动控制和手动 Field bus or PLC automatic control and manual control	
操作方式 Operation mode	按钮，触摸屏或IC卡操作 Button, touch screen or IC card	
升降速度 Elevating speed m/min	3-5	
横移速度 Horizontal Sliding speed m/min	7-10	
纵移速度 Vertical sliding speed m/min	7-10	

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PSH-2X型两层（后悬臂）升降横移式自动化停车设备 PSH-2X Two-layer (rear suspension arm) Lift-sliding Parking System



项目 Item	型式 Type	Z	D
		中型车 middle vehicle	大型车 Large vehicle
收容车种 Kinds of Vehicle	mm		
收容车长 Length	mm	4700	5000
收容车宽 Width	mm	1800	1850
收容车高 Height	mm	1450	1550
收容车重 Weight	kg	1500	1700
电源 Power source	三相AC380V5KVA		
电动机 Motor	升降 Lifting	2.2-3.7KW	
	横移 Sliding	0.2KW	
上升时间 Lifting speed	30sec		
下降时间 Descending speed	空载 No load	45sec	
	满载 Full load	30sec	
横移时间 Sliding time	30sec		

备注:

Wo尺寸 = Wxn(单元数) + 200

中型车 (middle vehicle) Z: W=2300, Lo=5650

大型车 (large vehicle) D: W=2350, Lo=5950

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PSH-3D 型三层(地坑一层)升降横移式自动化停车设备 PSH-3D Three-layer(including Pit)Lift-sliding Parking System

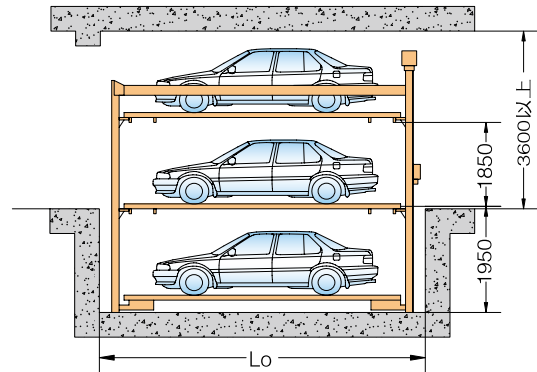
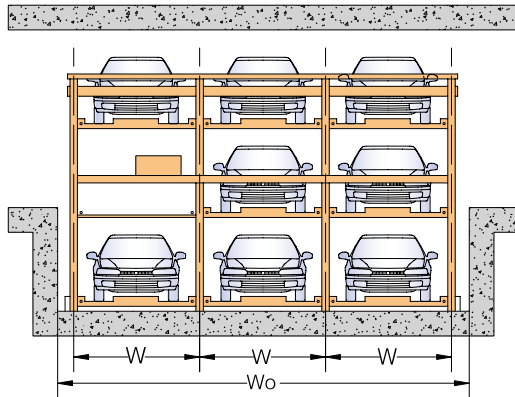


特征:

- 1、有限空间，作最大收容效率。
- 2、上、下层载车板升降，中层载车板左右移动实现存取车。
- 3、一次按钮，动作顺序一次完成，操作简便。
- 4、钢构式结构，安全性最高。

Characteristic:

1. Utilizing the limited space to maximize the parking efficiency;
2. Realizing the car storage and retrieval by lifting the upper and lower carrier and sliding the middle carrier;
3. Button-pressing operation, which is simple for operation;
4. Steel structure, which is safe.



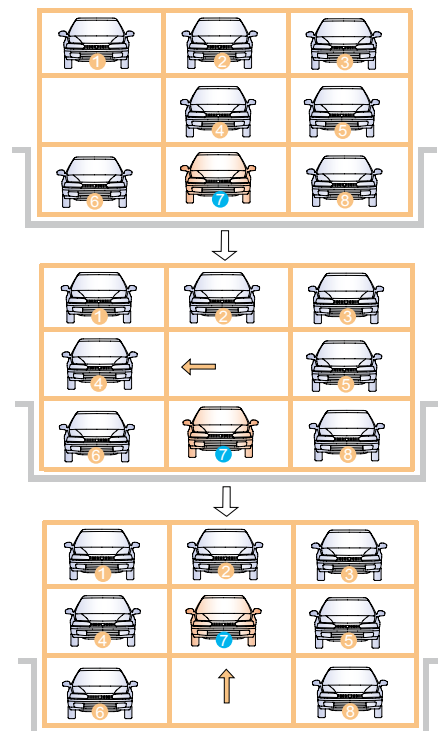
项目 Item	型式 Type			
	T	D		
车种 Kinds of Vehicle mm	特大型车 Super large vehicle	大型车 Large vehicle		
车长 Length mm	5300	5000		
车宽 Width mm	1900	1850		
车高 Height mm	1550	1550		
车重 Weight kg	2000	1700		
上下层 Upper and lower layer	升降速度 Lifting speed	3-5m/min	电动机 motor	2.2kw
中层 Middle layer	横移速度 Sliding speed	7-10m/min	电动机 motor	0.2kw
电源 Power source	380V/50Hz/3φ			
安全装置 Safety devices	极限开关·车轮档杆·安全挂钩 Limit switch wheel barrier safety hook			
	运转超时控制 紧急停止开关 running time our control emergency stop switch			
	运转警示器 光电开关 running alarm photo sensor			
	防漏电装置 过负荷保护 leakage device overload protection			
驱动链护盖 driving chain cover				

备注:

Wo尺寸 = Wxn(单元数) + 300

大型车 (middle vehicle) D: W=2400, Lo=5850

特大型车 (large vehicle) T: W=2500, Lo=6150



XJ Parking System

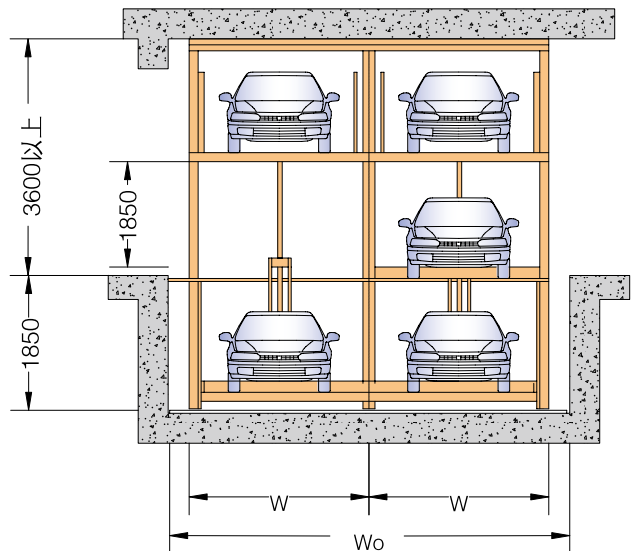
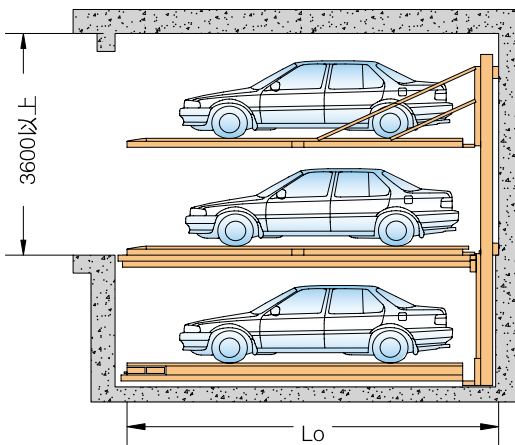
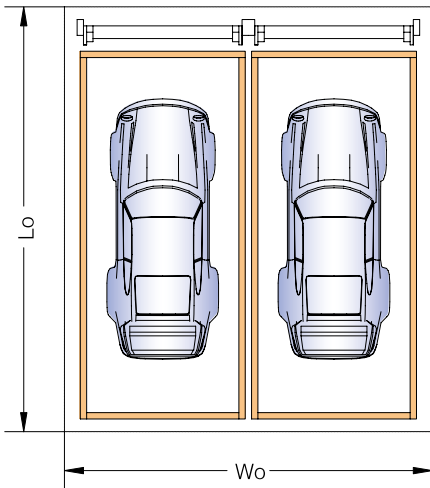
PSH-3D 型三层(坑式后悬臂)升降横移式自动化停车设备 PSH-3D Three-layer(including Pit)Lift-sliding Parking System

特征:

采用后悬臂式构造, 设备占用宽度最小, 无前立柱及链条阻挡, 存取车特别方便。

Characteristic:

The rear suspension structure is adopted so that the system covers minimum width without the obstruction of the front column or chain and it is very convenient for car storage and retrieval.



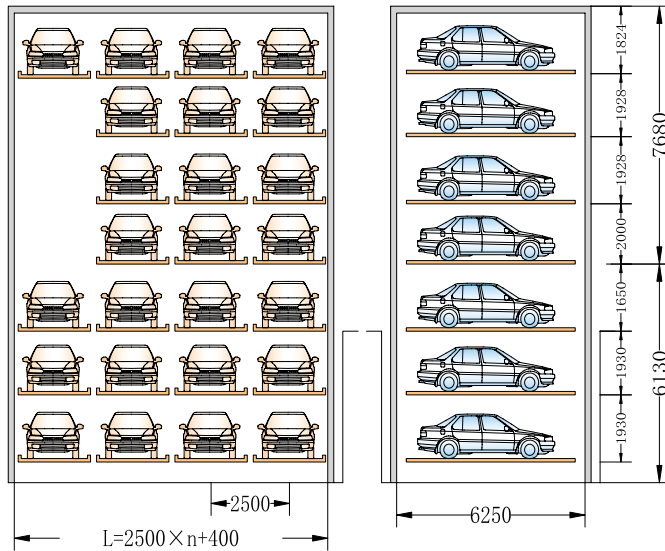
备注:

Wo尺寸 = Wxn(单元数) + 300

大型车 (large vehicle) D: W=2350, Lo=5950

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PSH-5.6.7型层地坑升降横移式自动化停车设备 PSH-5.6.7 Pit-type Lift-sliding Parking System



型号名称 Type and Name	PSH-7D地坑式升降横移 PSH-7D Pit type Elevator Transversing (Lift-sliding) Parking System
容车规格 mm Specifications for the car	5000x1850x1550
容车质量 kg Weight for the car	1700
升降速度 Lifting speed	地上3~5m/min, 地下2~4m/min Above ground: 3-5; underground: 2-4
横移速度 Sliding speed	7-10m/min
电源 Power source	380V/50Hz/3 φ
操作方式 Operation mode	按钮, 触摸屏或IC卡操作 Button, touch screen or IC card
控制方式 Control mode	PLC现场总线控制 PLC field bus control
安全装置 Safety devices	上下极限开关 光电检测 Upper and lower limit switch Photo sensor 车轮限位杆 防坠落装置 Wheel positioning rod Anti-dumping device 紧急停止开关 Emergency stop switch

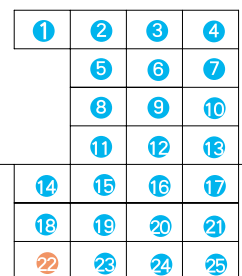
特性:

该设备能提供5-7层的停车位, 充分利用地上及地下空间, 是空间利用率比较高的一种设备, 而且具有进、出车时间短, 能耗低的优点。

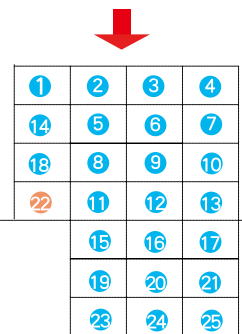
The system can provide 5-7-layer parking lots and fully utilize the above and underground space. So it is a system with high space utilization ratio, and has the advantages of short waiting period for entering or getting a car and low energy consumption.



出库车 1-2-3层车位横移



出库车辆车板上升



到位后车辆出库



XJ Parking System

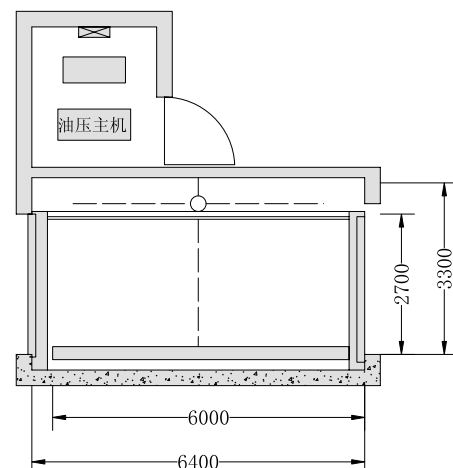
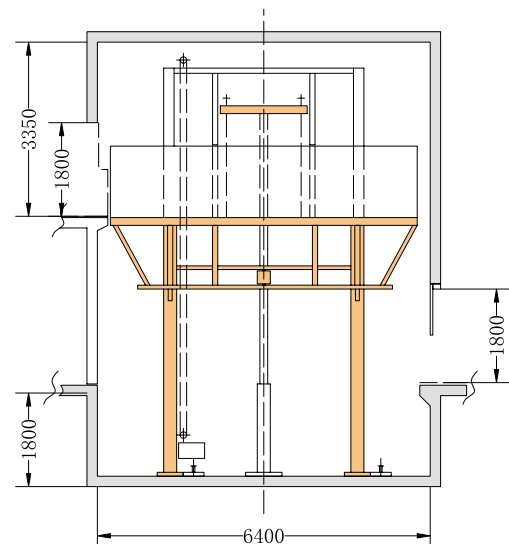
PST型汽车升降机 PST Car Elevator

特性:

PST型汽车升降机为停车库的重要设备，用于汽车的升降，取代进出车库和各层的通道，可节省大量场地，其载荷能力和动作形式等均可根据需要确定。电力传动，也可液力传动，可采用先进的交流变压变频控制(VVVF)。根据现场情况，机房可为顶置、侧置或底置方式。

Characteristic:

PST Car Elevator is the important device for the car parking, used for elevating of the cars, takes place of the channel for entering and getting out of the garage and each layers in the garage. It can save lots of land, the loading capacity and operation mode can be decided according to the needs. It can be electrically driven or hydraulically driven. It also adopts advanced AC VVVF (variable voltage variable frequency) control. According to the site situation, the machine room can be located at the top or side or bottom.



型号名称 Type and Name	PST型汽车升降机 PST Car Elevator
容车规格 mm Specifications for the car	5300x1900x1550
容车质量 Kg Weight for the car kg	2000
升降高度 m Elevating height m	≤40
停靠层站 layers	2-5(由现场确定) 2~5 (decided as per the site situation)
传动方式 Transmission mode	电力或液力传动 Electric or hydraulic
驱动技术 Driving mode	VV或VVVF调速传动 VV or VVVF
控制方式 Control mode	电脑 (PLC)全自动控制和手动 Computer (PLC) automatic control and manual control
操作方式 Operation mode	按钮、触摸屏或IC卡操作 Button, touch screen or IC card
升降速度 m/min Elevating speed m/min	9-60
标准配备 Standard configurations	<ul style="list-style-type: none"> • 红绿灯 · 对讲机 · 紧急照明 Red and green lamp, interphone, emergency lighting, positioning sensor

XJ Parking System

PCX 型垂直循环式自动化停车设备 PCX Vertical Circulating Mechanical Parking Seats

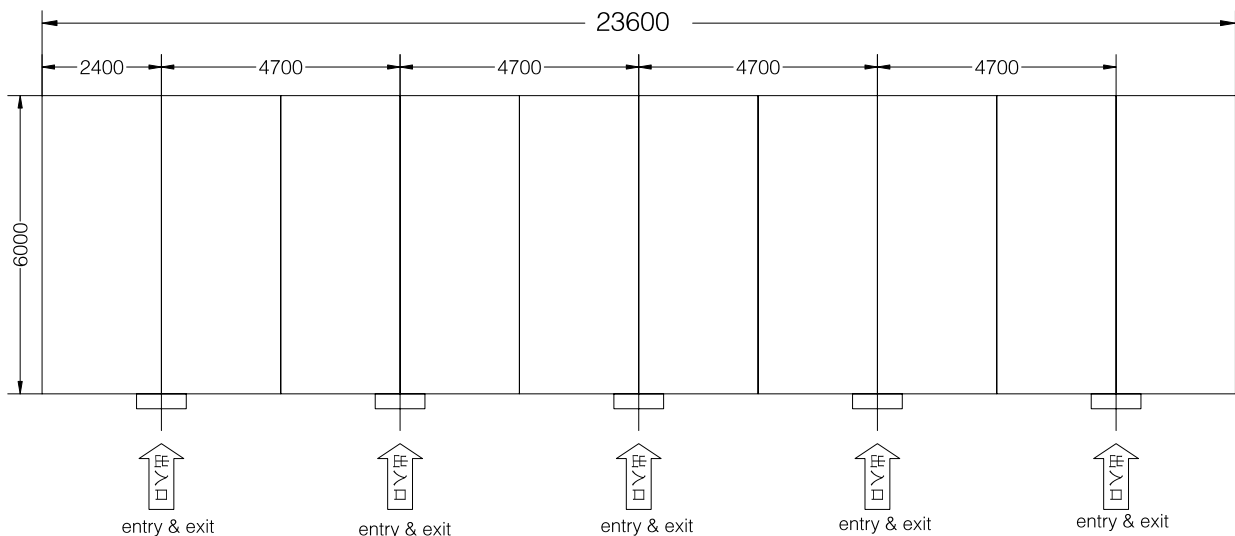
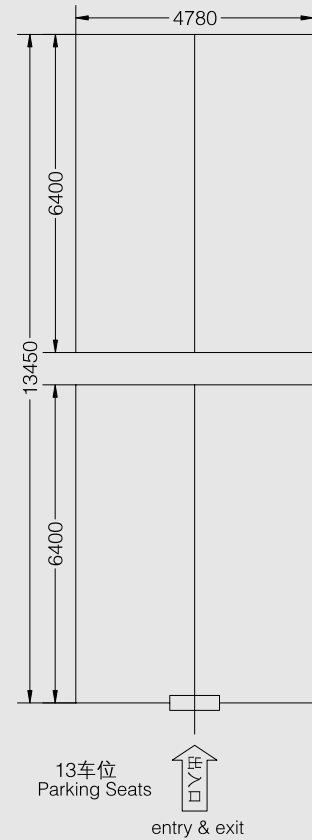


特性：

- 两辆车的位置，可停放七辆车。
- 采用旋转拨叉机构，使震动和噪音减到最小。
- 操作灵活，采用PLC控制，只需操作按键。
- 安装周期短，采用组合部件，装、拆便捷。
- 安全性高，检测装置齐全，运转平稳可靠。

Characteristic:

- The space for parking two cars can hold seven cars.
- It adopts rotating fork mechanism so as to minimize the vibration and noise.
- Flexible operation, PLC control, key-pressing operation.
- Short time of erection; easy for erection and dismantling since it adopts composite parts.
- High safety, complete inspecting device and stable and reliable running.



XJ Parking System

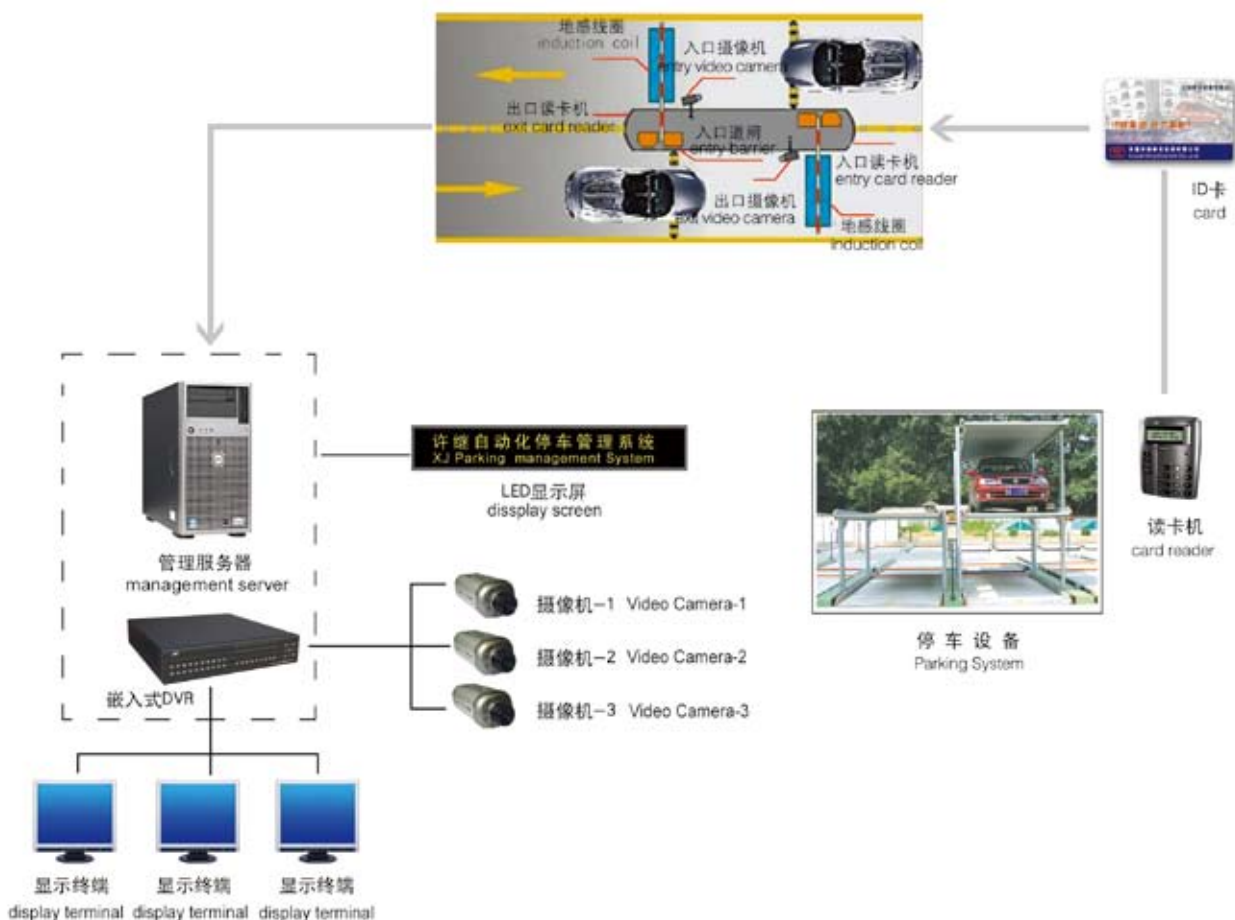
智能化停车场管理系统 Intelligent Parking Lot Management System

智能化停车场管理系统在越来越多的机械和非机械车库中应用起来。

我公司的智能化系统采用模块化设计，分为停车场门禁子系统、场内监控子系统、LED同步显示子系统、车辆识别子系统(远程读卡)、停车场智能计费系统、停车场区位引导子系统等多个子系统。每个子系统实现相应功能。

The intelligent parking management systems have been more and more applied in the mechanical and non-mechanical car parking systems.

Our intelligent system adopts module design, consisting of parking access sub-system, parking lot monitoring sub-system, LED synchronizing display sub-system, vehicle identification sub-system(remote card-reading), intelligent billing system, guiding sub-system and other sub-systems. Each sub-system carries out the relevant functions.



XJ Parking System

自动化停车系统工程实例 Typical Projects



北京正邦嘉园
PSH-5升降横移式 210车位
Beijing Zhengbang Jiayuan Apartment
PSH-5 Lift-sliding parking system—having 210 parking seats



山西国家安全厅
PSH-2升降横移式 76车位
Shanxi Provincial Security Department
PSH-2 Lift-sliding parking system—having 76 parking seats



北京园景花园
PJS-3简易升降式 132车位
Beijing Yuanjing Park Apartment
PJS-3 Mini parking system—having 132 parking seats



福建省公安厅
PSH-2升降横移式 101车位
Fujian Provincial Public Security Department
PSH-2 Lift-sliding parking system—having 101 parking seats

XJ Parking System

自动化停车系统工程实例 Typical Projects



上海新锦江大酒店
PSH-5升降横移式62车位
Shanghai New Jinjiang Hotel
PSH-5 Lift-sliding parking system
—having 62 parking seats



乌鲁木齐鸿福大酒店
PSH-3K升降横移式 45车位
Urumchi Hongfu Hotel
PSH-3K Lift-sliding parking system—having
45 parking seats



上海中石化华东销售公司
PSH型四层升降横移式 21车位
Shanghai Sinopec Huadong Sales
Company
PSH Four-layer Lift-sliding parking
system—having 21 parking seats



上海二中院
PSH-2升降横移式 215车位
Shanghai Erzhongyuan
PSH-2 Lift-sliding parking system—having
215 parking seats

上海音乐广场
二层升降横移 254车位
Shanghai Music Square
PSH two-layer Lift-sliding parking system—having 254
parking seats



上海景鸿大厦
升降横移式 悬臂式 70车位
Shanghai Jinghong Mansion
Lift-sliding parking system—having 70 parking seats

无锡家乐园
PSH-3K升降横移式 129车位
Wuxi Jiale Park
PSH-3K Lift-sliding parking system—
having 129 parking seats

