

无避让停车设备
BOTH PARKING PARKING SYSTEM



EZ-PARK

World's First
Parking System
Invention Patent

无避让
全球首创
停车设备
国家发明专利



詠敦發展有限公司
WINGTON DEVELOPMENT LIMITED



C 公司简介 Company Introduction

咏敦发展有限公司是一家专业从事机械立体停车库、交通自动化设施的集研发、生产、安装、维修于一体的科技实业公司。公司汇集了优秀人才、拥有多名中国最早从事机械立体车库行业的技术和市场专家。

在总结世界五十余年的立体车库发展历程及中国十多年机械立体车库的技术优势和优缺点的基础上，推出了具有完整知识产权的原创性发明——智能化无避让立体停车产品，并获得国家发明专利。新产品继承了过往机械车库成熟可靠的技术和多年积累的经验，同时克服了现有机械车库存在的不足，历经多年研发和严酷的疲劳和破坏性试验，和用户的长期使用，验证了产品具有可靠的稳定性。产品一经问世，以传统机械车库无法比拟的个性化、使用便捷性、更高的安全性和更高的性价比很快赢得了广大客户的青睐。

公司拥有多台大型数控和专用加工设备，建立了严格有效的产品质量管理体系。公司将本着“自主创新，科技兴邦”的理念，为在未来的几年能屹立于世界机械车库行业的前列而奋斗！

Yongdun Development Co., Ltd. is a technology industrial company specialized in R&D, manufacturing, installation and maintenance of mechanical spatial car parking lot and traffic automation facilities, which gathered various senior talents and the earliest technical and marketing specialists engaged in the industry of mechanical spatial car parking lot.

Based on summing up the fifty-year development history of the spatial car parking lot of world and the technology advantages and disadvantages of the ten-year mechanical spatial car parking lot of China, we launched the original invention with full intellectual property rights intelligent no-Birang spatial car parking product and received the China invention patent. New products introduced the matured and reliable technology of old mechanical parking lot, absorbed rich experience, overcame the deficiencies of current mechanical parking lot, and have been proved to have reliable stability after many years' R&D and strict endurance and destruction tests and constant use of clients. The product got a rapid popularity from different clients with the unmatched individuality, convenient usage, higher safety and reliability and cost performance compared with traditional mechanical parking lot.

Our company has many sets of large CNC and special processing equipments, and has established strict and effective product quality management system. We adhere to the concept of "independent innovation, technology development" and strive to stand in the forefront of world mechanical parking lot industry in the next few years.





产品优势 ADVANTAGES

智能化无避让立体停车产品是高科技的光机电一体化产品，智能化的特点为：运动功能和目标控制的智能化、安全保护功能的智能化、以适应各种使用环境和操作者的要求。无避让的特点为：上层停车的上、下车操作，无需下层停车作避让运动。智能化无避让立体停车产品，是无避让停车技术结合智能化的制造技术和智能化的控制技术，能为车主提供方便、快捷、安全可靠的停车服务的停车机器人。

In a conventional double parking system, the car on the lower deck has to be removed before retrieving or storing the car on the upper deck. Our innovative design eliminates the hassle of this step. It enables the access and parking of the vehicle on the upper deck without even touching the one on the lower deck. It is a state-of-art robot providing convenient, quick and reliable parking service.

1 车位增加率高 Increase of parking space

能100%的增加上层停车位，无需因留出避让空位导致浪费宝贵的停车空间。在地下车库，比升降横移车库多增加33%的停车位。
The system immediately increases 100% parking space. 33% more space saving compares to the conventional mechanical double parking system.

2 存取车方便 Easy storage & retrieval

免除车主的泊车之惧。上下车位宽度均为2.3米，无升降横移机械车库吊索的“窄门”和车台板必须直进直出的约束，下位停车与自然车位无区别；上层车台板经移出、旋转90度后落在路面，车主存取车均为无转弯的直行方式，不倒车，所以该型车库的上车位尤其适合于车主在光线不好的地下车库存取车。

The lower parking space is used the same way as a normal parking space. In order to allow parking on the upper deck, the platform is lowered down and placed in parallel with the driveway, after moving out and rotating 90 degrees. When doing so, the car on the lower deck is not necessary to move at all. The whole operation is easy enough to be carried out even in a poorly illuminated underground garage.

3 安全性、可靠性高 High safety and reliability

一个车位一个系统，故障率不到二层升降横移式停车库的五分之一；结构简单，主要控制元件采用原装进口元器件，安全性、可靠性高，故障率极低；即使发生停电、故障，每个上层车均可通过手动释放实现取车，整个车库不会出现取不下车的现象，管理处无需担心客户取不了车，这是其他立体车库产品都无法实现的目标；YL-B立体位配备有动态防坠落机构，即在设备运动过程中，即使链条或其他传动部件发生断裂或失效，也能将车台板卡住坠落，这是现有的升降横移式停车库无法实现的功能。

Our parking system has been proven to have only 1/5 of the failure rate of a conventional parking system. The system can be operated manually in case of power outage. EZ-Park is also equipped with dynamic free-fall prevention device. In case of mechanical breakdown, the locking device can prevent the platform from free falling and from creating further of damages. This is a safety feature not available in current up-down and cross-shifting parking system.

4 运行经济 Energy saving

每存取一辆车耗电约0.07kwh，无需管理员到车位操作，与固定式停车场相比，无需增加管理人员。

Every storage or retrieval of vehicle on the upper deck only consumes 0.07kwh of power. The parking operation can be established by the driver himself with a remote control or push of a couple of buttons. An attendant is not necessary.



5 维修方便 Easy maintenance

公司严格按照ISO质量管理体系要求，制订有完善的维修保养方案，定期对设备保养点进行检查保养，保证设备正常运行。设备独立性高，单台设备维修不影响相邻及周边停车位，检修方便。

Our company has a comprehensive maintenance plan in accordance with requirements of ISO quality management system and will check and maintain the equipments periodically to guarantee their smooth operations. Since every parking system is independent of each others, maintenance is easy and simple and will not affect its adjacent or surrounding parking systems.

6 占地面积少 Space saving

车辆入库无须倒车，设备前方通道只需4米即可以满足设备运行和停车需求，占用空间面积少。与传统二层升降横移式立体停车库相比，可节约20%左右的场地建设面积，建设成本较低。

Only a four-meter wide driveway is required to park and retrieve the vehicles on both decks.

7 结构简洁 Elegant structure

建筑通透性好，不是呆板的钢框架，对周围的景观影响小。
Even when the EZ-Park is installed outdoor, the elegant design would have a little impact on spoiling the surrounding views.

8 个性化 Personalized

一车一位。设备权属清晰，可办理产权。存取车只运动车主的车位，可实现单台销售和安装。

Each set of EZ-Park can be sold and installed separately to owner of each parking space.

技术参数
SPECIFICATIONS

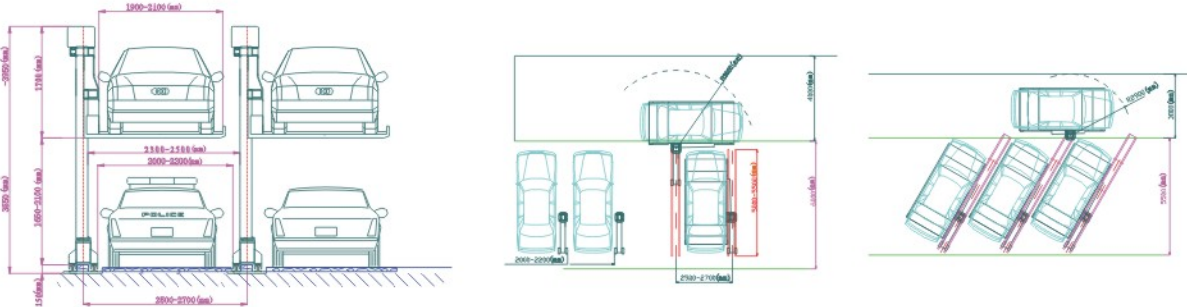


设备与技术领先世界
state-of-art technology



无避让立体停车设备技术参数
SYSTEM SPECIFICATIONS

	WT1T (室外型) WT1T (Outdoor Model)	WT1D (室内型) WT1D (Indoor Model)	备 注 Remarks
基本参数 Fundamental Parameters			
占地安装尺寸(长X宽) Total Space Required for Installation (L X W)	5500x2650 (mm)		
设备安装高度 Height of System	3800mm	3400mm	不含基础高度 Height of Foundation Not Included
安装要求最少路面净宽度 Net Driveway Width Required	3.8m		
设备自重 Total Weight of System	1.87T		不含基础 Foundation Not Included
承载参数 Loading			
上层停车尺寸(长X宽X高) Upper Deck Dimensions (L X W X H)	5000x1950x1550 (mm)	5300x1950x1550 (mm)	车宽为不含后视镜宽度 Width of Vehicle Not including Back Mirrors
上层停车承载限重 Upper Deck Loading Limit	≤2000kg	≤1700kg	
下层停车尺寸 (宽X高) Low Deck Dimensions (W X H)	5500x1950x2000 (mm)	5500x1950x1550 (mm)	车宽为不含后视镜宽度 Width of Vehicle Not including Back Mirrors
性能参数 Performance			
标准输入电源 Nominal Input Voltage	三相AC380V/50HZ AC380V/50Hz (3-Phase)		
输入电源范围 Input Voltage Range	电压三相325V480V Voltage Range 325V 480V (3-Phase) 频率50Hz±5% Frequency 50Hz±5%		
运动方式 Movement Steps	移动/转动/升降 Movement on Track Rotation - Elevation		
最大功率 Largest Power Consumption	2.2kw		
电机功率 Power Consumption Breakdowns	移动: 0.75kw Movement on Track: 0.75kw 转动: 0.37kw Rotation: 0.37kw 升降: 2.2kw Elevation: 2.2kw		
过载能力 Overload Tolerance	移动、转动: 150%60S, 200% 0.5S 升降: 150%5S Movement on Track, Rotation: 150% 60S, 200% 0.5S Elevation: 150% 5S		
控制方式 Control Method	遥控或按键 Remote Control or Push Button		
存、取车单程时间 Time Required to Store or retrieve	≤60 s		
噪 音 Noise	≤60 dB (A)		
一次存取设备耗电量 Power Required for Each Storage or Retrieval Operation	≤0.07kwh		
设备基础高度 Height/Depth of Foundation required	120mm—200mm		



立体停车设备运动过程 Operation procedures

上层停车位: Upper parking space:

- 车辆到位准备, 操作人员进行操作, 将上层车位降至地面上车位置;
Once the vehicle is ready for storage, the operator moves the upper platform to place;
- 司机将车辆开上停车台板, 即时可以下车离开;
Driver drives the vehicle onto the platform, then gets off and leaves;
- 操作人员进行操作, 上层车位自动上升收回到停放位置。
The operator moves the upper parking platform to the storage position.

