



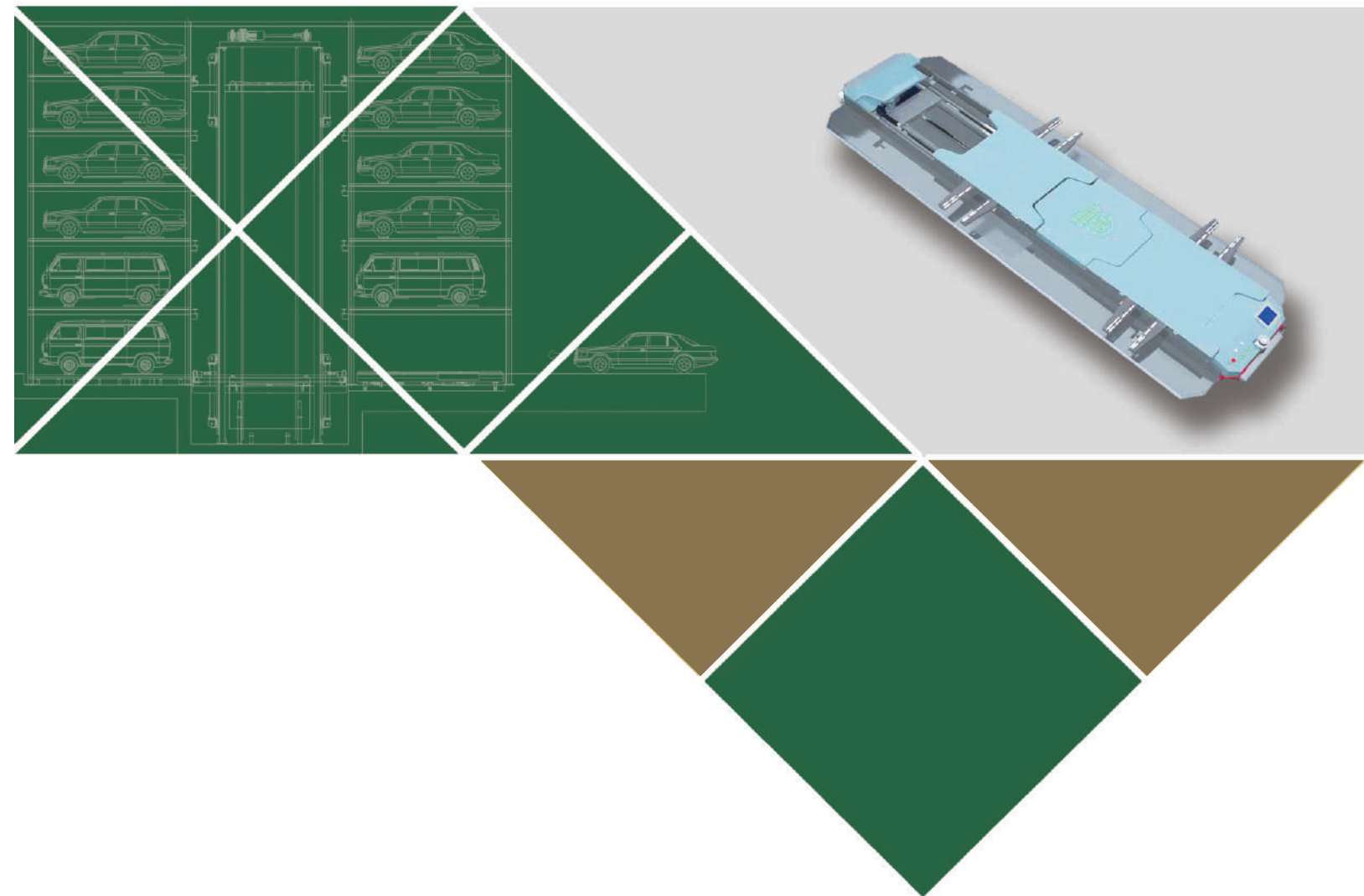
追求卓越 · 产业报国

青岛茂源停车设备制造有限公司

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青岛茂源停车设备制造有限公司
QINGDAO MAOYUAN PARKING EQUIPMENT MANUFACTURING CO.,LTD.

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企业篇
BUSINESS ARTICLES

企业简介 GROUP PROFILE

青岛茂源金属集团有限公司成立于1997年，坐落于美丽海滨城市青岛，占地面积40余万平方米，主要从事立体车库、钢结构、暖通等业务。2008年茂源集团开始了进军立体车库行业的征程，先后取得了国家质检总局颁发的《特种设备制造许可证》以及《特种设备安装改造维修许可证》，2009年集团斥巨资成立全资子公司--青岛茂源停车设备制造有限公司，专业从事立体车库设备的研发、设计、制造、安装和售后服务等工作。

青岛茂源停车设备制造有限公司拥有七大类五十多个品种的机械式停车设备，年销售额近四亿元，业绩名列行业前茅；公司实力雄厚、技术领先，拥有发明专利12项，实用新型专利216项，是国内机械式停车设备研发和制造的知名专业厂家。

Qingdao MaoYuan Metal Group Co, Ltd was founded in 1997, is located in the beautiful city of Qingdao, covers an area of more than 400+ thousand square meters, mainly engaged in three-dimensional garage, steel structure, HVAC and other services. 2008 MaoYuan group began a journey into the garage industry, has made the State Quality Inspection Administration issued a "special equipment manufacturing license" and "installation of special equipment maintenance permit", in 2009 the Group invested to set up a wholly-owned subsidiary-Qingdao MaoYuan Parking Equipment Manufacturing Co Ltd, specializing in parking equipment development, design, manufacture, installation and service customer service etc... Qingdao Mao Yuan Parking Equipment Manufacturing Co., Ltd. the company has seven categories of more than 50 varieties, year sales of nearly four hundred million yuan, industry ranked highest performance; the strength of the company, leading technology, with 12 patents, 216 utility model patents, is the famous professional manufacturer on equipment R&D and production.

公司参与起草《升降横移类停车位生产制造》、《停车设备安装与维护》、《平面移动类停车位生产制造》、《机械式停车设备操作使用规范》等多个国家标准，先后通过ISO9001:2015国际质量管理，GB/T 28001-2011职业健康安全管理体系，ISO14001:2015环境管理体系等多个体系认证。2017年公司通过了GB/T27922-2011《商品售后服务评价体系》的五星级认证要求。公司先后获得“国家高新技术企业，山东省企业技术中心，停车设备工作委员会副理事长单位，青岛理工大学学生实践实习基地，国家级“诚信守法企业”，SGS认证合格供应商认证，青岛市工程研究中心，青岛市科技民营企业，山东省百强民营企业，山东省“重合同、守信誉”企业，AAA级信用企业，安全生产双体系认证单位，”等多个称号。

青岛茂源停车设备制造有限公司始终以现代化企业的生产经营理念紧紧把握时代脉搏，始终以市场需求为导向，坚持以“追求卓越、服务全球”为企业愿景，以“团结、拼搏、责任、效率”为企业核心价值观，“让停车不再难”永远是茂源人追求的目标。

在新的形势，新的机遇面前，勤劳、执着的茂源人，将秉承过去的辉煌，以零起点的心态继续努力，积极面对未来的激烈竞争，实现多元化经营，打造一个具有强劲生命力的茂源品牌，向国际化现代企业集团迈进。

The company has passed ISO 9001:2015 International Quality Management, GB/T 28001-2011 Occupational Health and Safety Management, ISO14001:2015 Environmental Management and other multi-system certification. In 7 years, the company passed the five-star certification requirements of GB/T 27922-2011 "Evaluation System of After-Sale Service of Commodities". The company has successively obtained "National High-tech Enterprises, Shandong Enterprise Technology Center, Parking Equipment Working Committee Vice-Chairman Unit, Student Practice Base of Qingdao University of Technology, National "Honesty and Law-abiding Enterprises", SGS Certification Qualified Supplier Certification, Qingdao Engineering Research Center, Qingdao Science and Technology Private Enterprises, Shandong Top 100 Private Enterprises, Shandong Province coincidence. The same, keep reputation "enterprise, AAA credit enterprise, safety production double system certification unit," and many other titles. Qingdao Maoyuan Parking Equipment Manufacturing Co., Ltd. has always grasped the pulse of the times with the production and management concept of modern enterprises, always guided by market demand, adhered to the enterprise vision of "pursuing excellence and serving the whole world", and took "unity, struggle, responsibility and efficiency" as the core values of the enterprise, so that parking is no longer difficult is always the goal pursued by Maoyuan people. In the face of new situation and new opportunities, hard-working and persistent Maoyuan people will continue to work hard with a Zero-start mentality to face the fierce competition in the future, realize diversification, build a strong vitality Maoyuan brand, and move towards an international modern enterprise group.

企业文化CORPORATE CULTURE

天道酬勤：出自《论语》。是指一分耕耘,一分收获,是古今中外所称道的多劳多得。 “天”即“上苍”；“道”指“主张”；“酬”即酬谢、厚报；“勤”即勤奋、敬业；就是说“天意厚报那些勤劳、勤奋的人”。这是茂源人的行为准则。公司崇尚一份付出一份收获，各尽其能。在茂源这个大舞台上，茂源人可以尽情展现自己，实现自己的人生抱负，为企业的发展、为社会的进步、为人类的富足奉献自己的才能。

上善若水：语出《老子》：“上善若水，水善利万物而不争。”意思是说，最高境界的善行就像水的品性一样，泽被万物而不争名利。上善：至善，最完美；水：这里喻指圣人。达到泽被万物而不求回报的境界，这是公司领导者的行为准则。作为茂源的领导，应该关心爱护自己的员工自己的下属，像水一样泽被员工的心田。作为企业的老板肩负起社会和企业的重担，默默的为员工创造更好的工作环境，为社会创造更多的财富，为人民生活的和谐健康舒适奉献自己的力量。

核心价值观

团结、拼搏、责任、效率

茂源愿景

追求卓越,产业报国

茂源目标

让停车不再难

“茂源停车,品质决定未来”，
茂源停车设备制造有限公司真诚地期待与您合作,共创美好未来。

God helps those who help themselves: from the "Analects of Confucius". Refers to the You reap what you sow. is praised by the hard work at all times and in all countries. "Heaven" is "God"; "Tao" refers to "claim"; "pay" that reward, thick newspaper; "diligent" diligence, dedication; that is to say "God thick newspaper industrious, hardworking people who". This is the code of conduct of the people. The company advocates a pay a harvest, each do their best. In Mao source on this big stage, Mao source people can enjoy themselves, realize their ambitions, for the development of the enterprise, for the progress of society, for the prosperity of mankind to contribute their talents.Language:
A Lao Tzu"as good as water": "as good as water, water benefits all things without struggle." It is said that the highest good is just like the character of water, bring benefit to all things without struggle fame. Good: the perfect goodness; water: this metaphor refers to the saints. To bring benefit to all things without asking for return of the realm. This is the leader of the company code of conduct, as the source of leadership, should care about their own subordinate staff, as employees will benefit the heart like water. As the owner of the enterprise to shoulder the heavy burden of society and enterprises, to create a better working environment for employees, to create more wealth for society, for the people to live a harmonious and healthy and comfortable to contribute their own strength.

MAOYUAN THOUGHT

Unity、Struggle、Responsibility、Efficiency

MAOYUAN POLICY

Customer first, quality first, the pursuit of excellence, build a good faith.

MAOYUAN TARGET

Make parking easy.

"Maoyuan parking, quality determines the future",
Maoyuan sincerely look forward to work with you to create a better future.

公司资质 COMPANY QUALIFICATION



公司荣誉 COMPANY QUALIFICATION

- ◎ 国家高新技术企业
- ◎ 山东省企业技术中心
- ◎ 中国重型机械工业协会副理事长单位
- ◎ 《平面移动类机械停车式设备》国标起草单位
- ◎ 《升降横移类机械式停车设备》国标起草单位
- ◎ 《垂直升降类机械式停车设备》国标起草单位
- ◎ 《机械停车设备使用制造规范》国标起草单位
- ◎ 《停车设备安装与维护》国标起草单位
- ◎ 国家级“诚实守信企业”
- ◎ ISO9001:2015国际质量管理体系认证
- ◎ GB/T 28001-2011 职业健康安全管理体系认证
- ◎ ISO14001:2015 环境管理体系认证
- ◎ SGS认证 合格供应商认证
- ◎ 青岛市工程研究中心
- ◎ 青岛市科技民营企业
- ◎ 山东省百强民营企业
- ◎ 山东省“重合同、守信誉”企业
- ◎ 安全生产标准化单位
- ◎ 安全生产双体系认证单位
- ◎ AAA级信用等级认证企业



生产能力 PRODUCTION CAPACITY

公司拥有两个工业园，共占地40余万平米；公司投入使用的停车设备大型自动化生产流水线，使公司停车设备产能一举扩大至年产10万车位。

MAOYUAN has two industrial park, covers an area of more than 400+ thousand square meters; the group put into use line parking equipment and large-scale automated production, the company production capacity to expand in one fell swoop parking equipment with an annual output of 100 thousand parking spaces.



▲ 厂区俯瞰图

先进的加工、生产设备 Advanced processing and production equipment

- | | |
|-------------|--|
| ——全自动焊接机器人 | Fully automatic welding robot |
| ——三维数控钻床 | Three dimensional numerical control drilling machine |
| ——喷漆流水线 | Spray painting line |
| ——数控转塔冲床 | CNC plasma flame cutting machine |
| ——数控液压冲孔机 | CNC hydraulic punching machine |
| ——龙门移动式平面钻床 | CNC plane drilling machine |
| ——剪板机 | Shearing machine |
| ——自动化激光切割机 | Automatic Laser Cutting Machine |

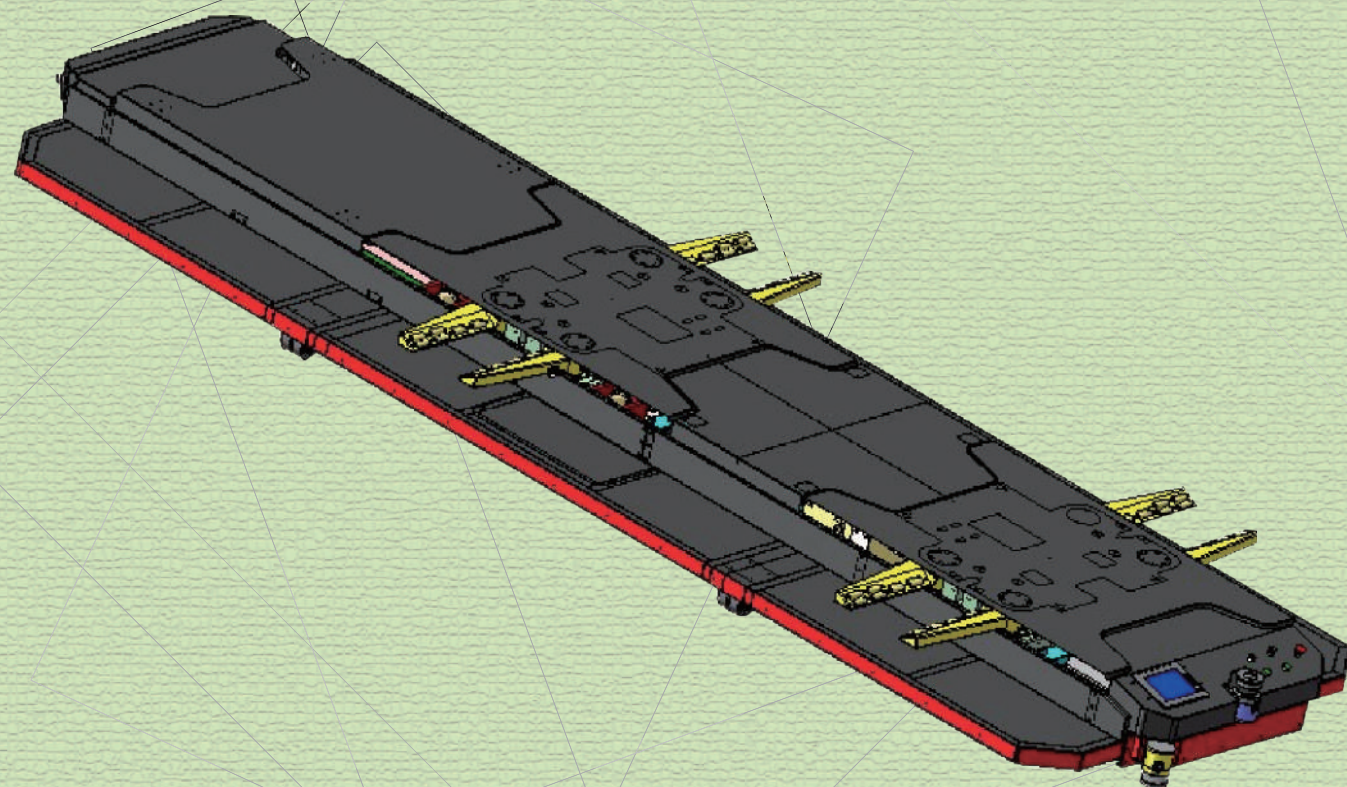


▲ 生产车间

Maoyuan Smart PARKING
Quality decides the future

品质决定未来

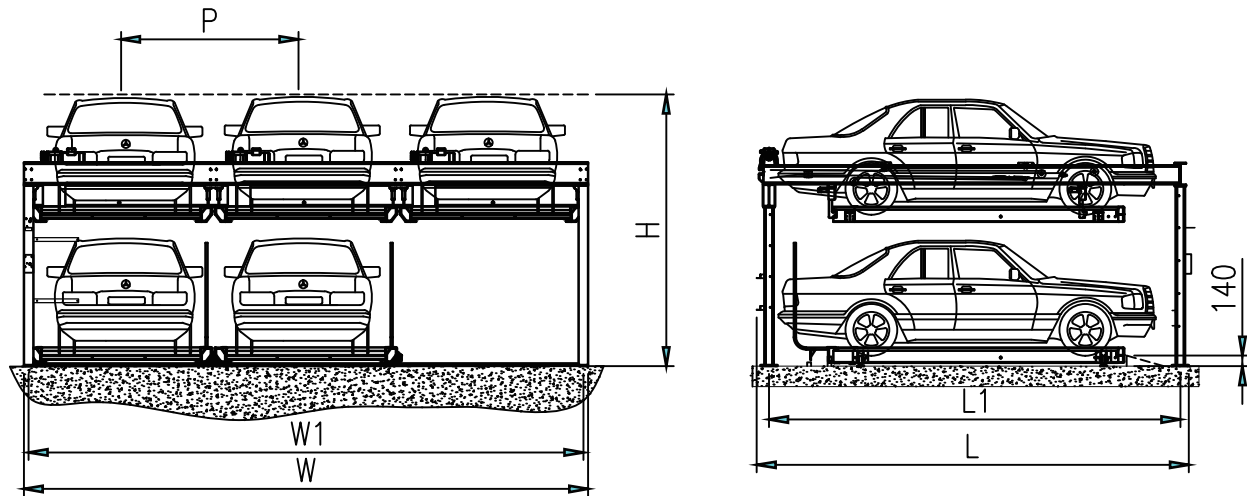
—— 茂源智能停车



激光导航AGV泊车机器人
Laser navigation AVG robot

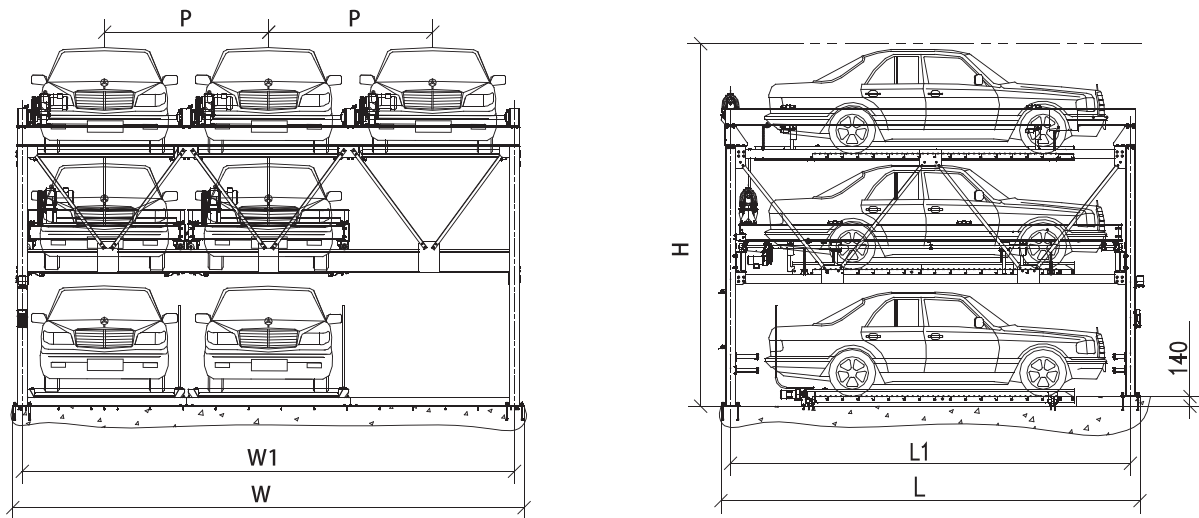
✕ 产品篇
PRODUCT ARTICLE

升降横移类—2层
2 LEVEL PUZZLE PARKING SYSTEM



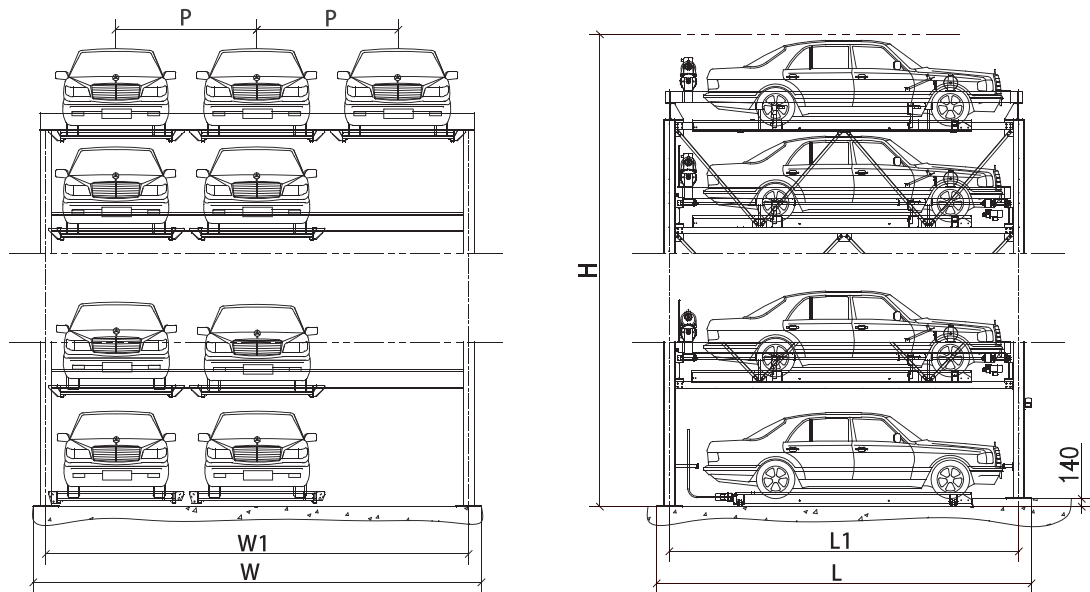
项目 Project		代号 Code number	中型车（Z） Mid-size car	大型车（D） Large car	特大型车（T） Over size car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	＼	≤ 4700×1750×1450mm	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重 量 Weight	＼	≤ 1500kg	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2300mm	2350mm	2400mm
前立柱中心距 Post center distance		W1	6900mm	7050mm	7200mm
设备满外宽度 Out width		W	7025mm	7175mm	7325mm
前后立柱中心距 Front and back post center distance		L1	5150mm	5450mm	5750mm
设备满外长度 Out length		L	5425mm	5725mm	6025mm
停车设备高度 System height		H	3600mm		
额定速度 Rated speed			升降速度：3-6 m/min Lift speed:3-6 m/min	横移速度：6-9m/min Traverse speed: 6-9m/min	
电机功率 Motor power	升降 Lift	2.2 kw			
	横移 Traverse	0.2 kw			
驱动方式 Driving mode		电机+链条 motor + chain			
控制方式 Control mode		PLC程序控制 PLC program control			
操作方式 Operation mode		按钮+刷卡（任选） Button+induction card (customized)			
动力电源 Power supply		3N,AC,380V,50Hz			
入库方式 Storage mode		倒车入库 reverse			
平均取车时间 Average pick-up time		42S			

升降横移类—3层
3LEVEL PUZZLE PARKING SYSTEM



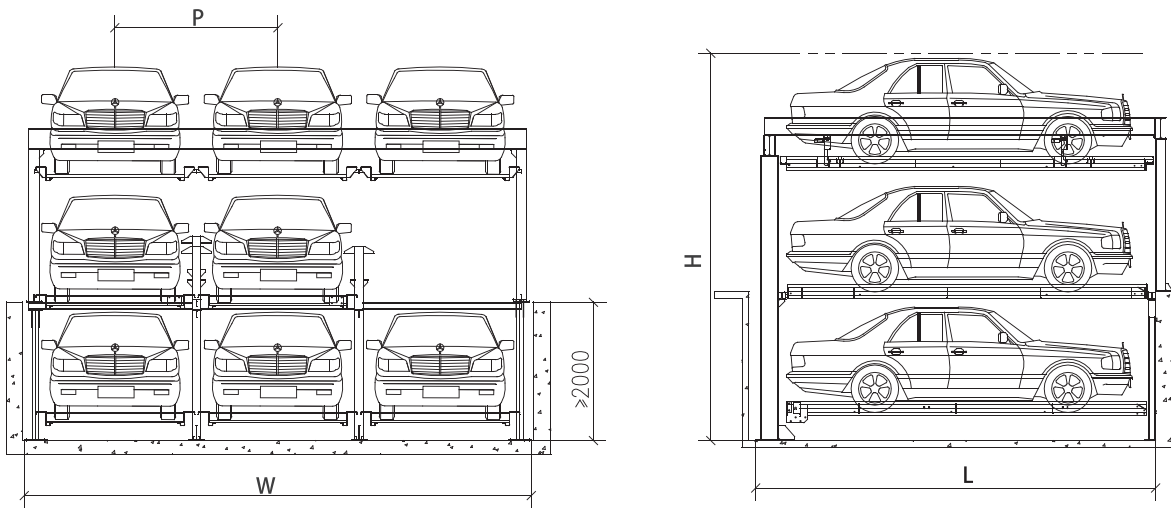
项目 Project		代号 Code number	中型车 (Z) Medium size car	大型车 (D) Large car	特大型车 (T) Extra large car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	＼	≤ 4700×1750×1450mm	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重 量 Weight	＼	≤ 1500kg	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2500mm		
前立柱中心距 Post center distance		W1	7500mm		
设备满外宽度 Out width		W	7780mm		
前后立柱中心距 Front and back post center distance		L1	5550mm	5850mm	6150mm
设备满外长度 Out length		L	5830mm	6130mm	6430mm
停车设备高度 System height		H	5300mm		
额定速度 Rated speed		升降速度：3-5 m/min Lift speed:3-5m/min 横移速度：6-9m/min Traverse speed: 6-9m/min			
电机功率 Motor power	升降 Lift	2.2KW			
	横移 Traverse	0.2KW			
驱动方式 Driving mode		电机+链条 motor + chain			
控制方式 Control mode		PLC程序控制 PLC program control			
操作方式 Operation mode		按钮+刷卡（任选） Button+induction card (customized)			
动力电源 Power supply		3N,AC,380V,50Hz			
入库方式 Storage mode		倒车入库 reverse			
平均 取车时间 Average pick-up time		52S			

升降横移类—4~7层
4~7 LEVEL PUZZLE PARKING SYSTEM



项目 Project		代号 Code number	中型车 (Z) Medium size car	大型车 (D) Large car	特大型车 (T) Extra large car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	＼	≤ 4700×1750×1450mm	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重 量 Weight	＼	≤ 1500kg	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2500mm		
前立柱中心距 Post center distance		W1	7500mm		
设备满外宽度 Out width		W	7780mm		
前后立柱中心距 Front and back post center distance		L1	5550mm	5850mm	6150mm
设备满外长度 Out length		L	5830mm	6130mm	6430mm
停车设备高度 System height		H	四层:7000mm/五层:8700mm/六层:10400mm/七层:12100mm		
额定速度 Rated speed		二、三层升降速度: 3-5 m/min 四至七层升降速度: 5-8 m/min 横移速度: 5-8 m/min Two or three layer lift:3-5 m/min Four to seven layer lifting:5-8 m/min Traverse speed:5-8 m/min			
电机功率 Motor power	升降 Lift	二、三层升降Two or three layer lift: 2.2KW 四至七层升降 Four to seven layer lifting: 3.7KW			
	横移 Traverse	横移Traverse : 0.2KW			
驱动方式 Driving mode		电机+钢丝绳 motor + the figure			
控制方式 Control mode		PLC程序控制 PLC program control			
操作方式 Operation mode		按钮+刷卡 (任选) Button+induction card (customized)			
动力电源 Power supply		3N,AC,380V,50Hz			
入库方式 Storage mode		倒车入库 reverse			
平均 取车时间 Average pick-up time		四层 Four layer 62S; 五层 Four layer 72S; 六层 Six layer 82S; 七层 Seven layer 92S			

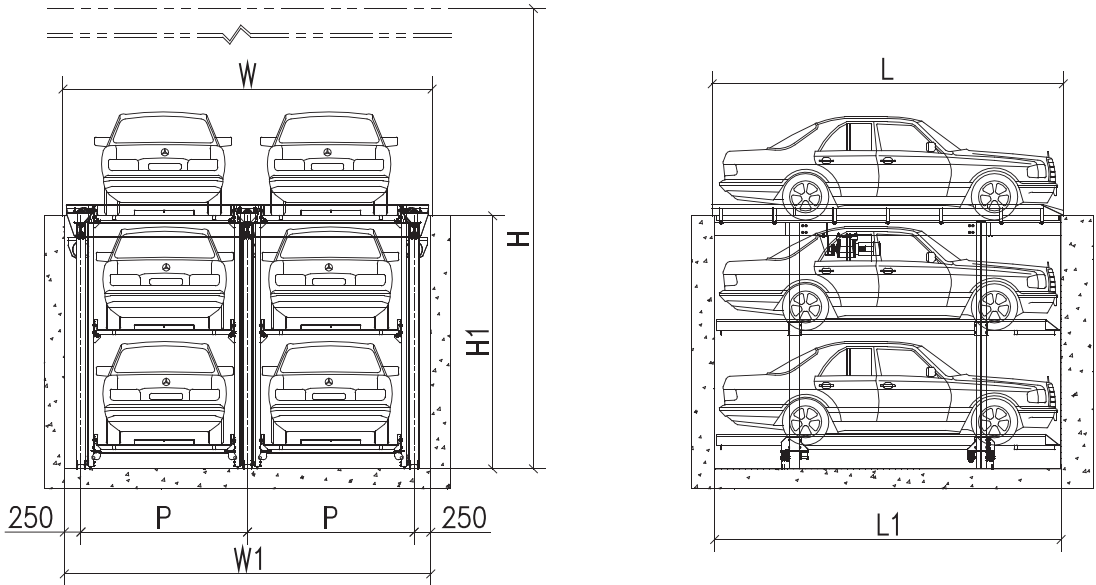
升降横移类—负一正二
PUZZLE PARKING SYSTEM-THREE LEVEL WITH PIT



项目 Project		代号 Code number	中型车 (Z) Medium size car	大型车 (D) Large car	特大型车 (T) Extra large car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	＼	≤ 4700×1750×1450mm	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重 量 Weight	＼	≤ 1500kg	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2300mm	2350mm	2400mm
设备满外宽度 Out width		W	7180mm	7330mm	7480mm
前后立柱中心距 Front and back post center distance		L1	5580mm	5880mm	6180mm
设备满外长度 Out length		L	5480mm	5780mm	6180mm
停车设备高度 System height		H	5600mm		
额定速度 Rated speed		升降：3-6 m/min 横移：6-9 m/min Lift:3-6 m/min Traverse:6-9 m/min			
电机功率 Motor power	升降 Lift	2.2KW			
	横移 Traverse	0.2KW			
驱动方式 Driving mode		电机+链条 motor + chain			
控制方式 Control mode		PLC程序控制 PLC program control			
操作方式 Operation mode		按钮+刷卡（任选） Button+induction card (customized)			
动力电源 Power supply		3N,AC,380V,50Hz			
入库方式 Storage mode		倒车入库 reverse			
平均 取车时间 Average pick-up time		53			

简易升降类一负二正一

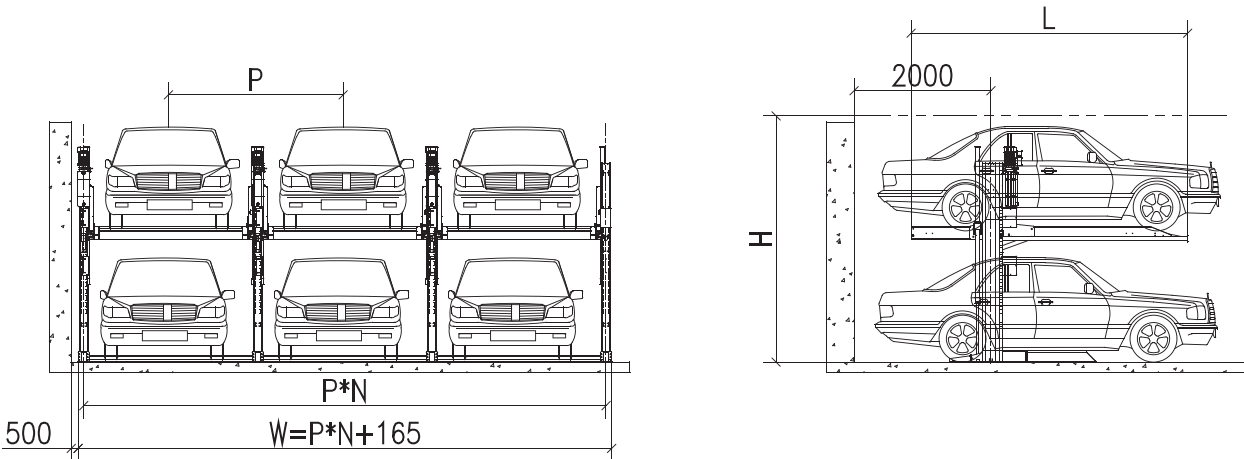
SIMPLE PARKING SYSTEM-THREE LEVEL WITH PIT



项目 Project		代号 Code number	大型车 (D) Large car	特大型车 (T) Over size car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	\\	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重量 Weight	\\	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2550mm	2550mm
地坑宽度 Pit width		W1	5600mm	5600mm
设备满外宽度 Out width		W	5640mm	5640mm
地坑长度 Pit length		L1	5200mm	5500mm
设备满外长度 Out length		L	5270mm	5570mm
停车设备高度 System height		H	8900mm	8900mm
地坑深度 Pit depth		H1	3800mm	3800mm
额定速度 Rated speed	提升速度 Lift speed	\\	2.5m/min	2.5m/min
电机功率 Motor power	提升电机 Lift motor	\\	4kw	4kw
驱动方式 Driving mode		电机+链条 motor + chain		
控制方式 Control mode		按钮、遥控器 remote control		
表面处理 Surface treatment		喷漆、镀锌 paint,zinc		
动力电源 Power supply		3N,AC,380V,50Hz		
载车板内宽 (mm) Board width(mm)			1950	2000

简易升降类一地上二层

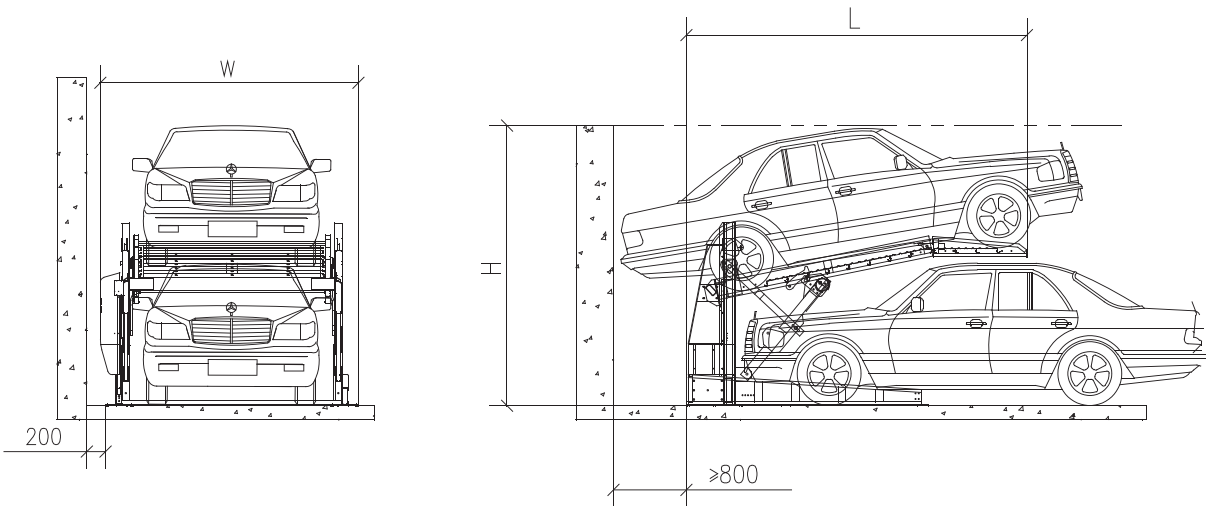
SIMPLE PARKING SYSTEM-TWO LEVEL



项目 Project		代号 Code number	中型车 (Z) Medium size car	大型车 (D) Large car	特大型车 (T) Over size car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Length x width x height	＼	≤ 4700×1750×1450mm	≤ 5000×1850×1550mm	≤ 5300×1900×1550mm
	重 量 Weight	＼	≤ 1500kg	≤ 1700kg	≤ 2350kg
列宽 Row width		P	2495mm	2545mm	2595mm
单台满外宽度 Single device width		W	2660mm	2710mm	2760mm
设备满外长度 Out length		L	3844mm	4044mm	4244mm
停车设备高度 System height		H	3600mm		
额定速度 Rated speed	提升速度 Lift speed	＼	2.5m/min		
电机功率 Motor power	提升电机 Lift motor	＼	1.5kw		
驱动方式 Driving mode		电机+链条 motor + chain			
控制方式 Control mode		按钮、遥控器 remote control			
表面处理 Surface treatment		喷漆、镀锌 paint,zinc			
动力电源 Power supply		3N,AC,380V,50Hz			
载车板内宽 (mm) Board width(mm)		1950		2000	

简易升降类—液压俯仰式

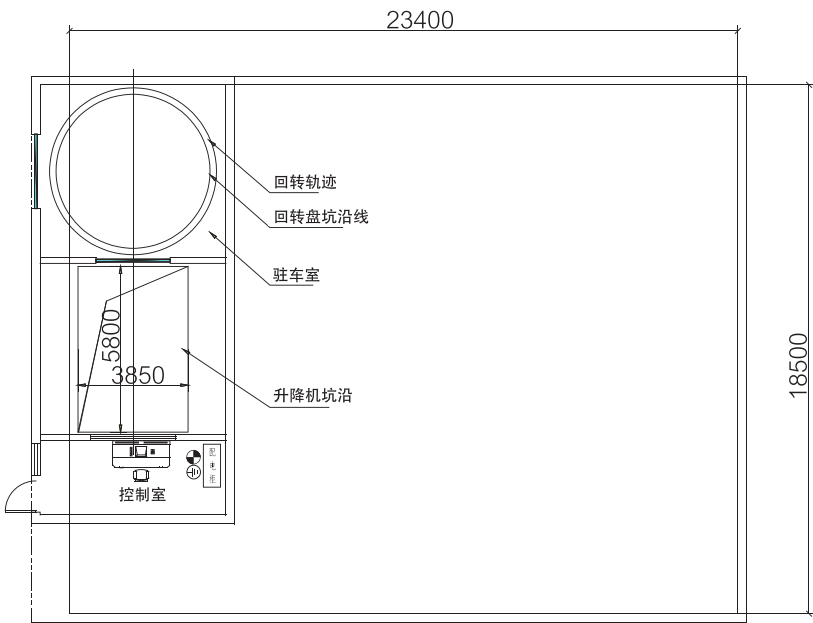
SIMPLE PARKING SYSTEM-HYDRAULIC TILTING PARKING LIFT



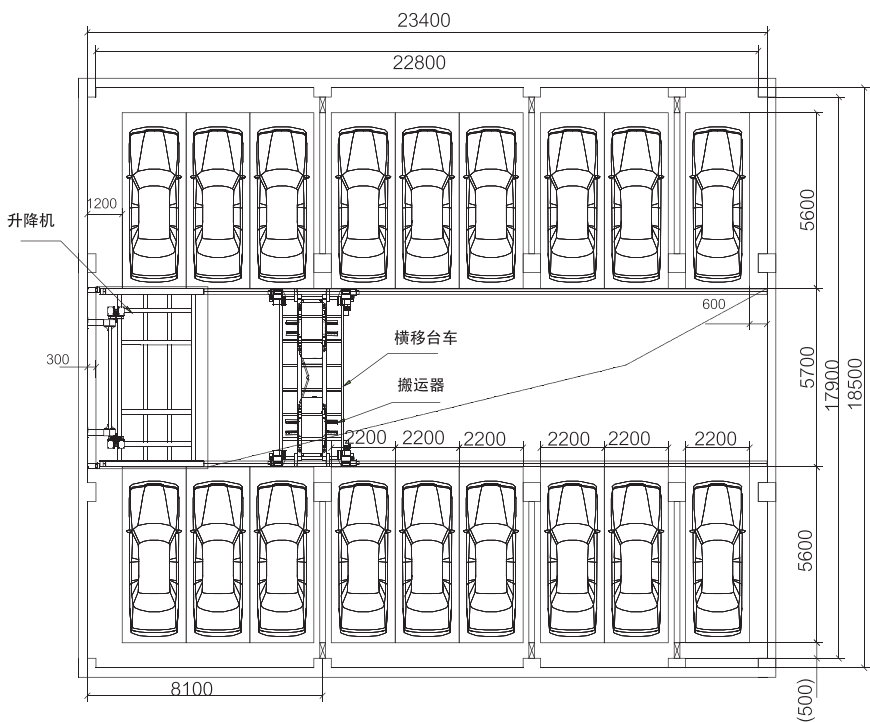
项目 Project		代号 Code number	大型车 (D) Large car
适停车辆 Adaptive vehicle	长 x 宽 x 高 Long x wide x high	\\	≤ 5000×1850×1550mm
	重量 Weight	\\	≤ 1700kg
单台满外宽度 Single device width		W	2765mm
设备满外长度 Out length		L	3650mm
停车设备高度 System height		H	3000mm
额定速度 Rated speed	提升速度 Lift speed	\\	2.5-4m/min
电机功率 Motor power	提升电机 Lift motor	\\	2.2kw
驱动方式 Driving mode		液压/hydraulic pressure	
控制方式 Control mode		按钮 Button	
表面处理 treatment		喷漆、镀锌 Spray paint,zinc	
动力电源 Power supply		3N,AC,380V,50Hz	
载车板内宽 (mm) Board width(mm)		2000	

平面移动类

CART PARKING SYSTEM

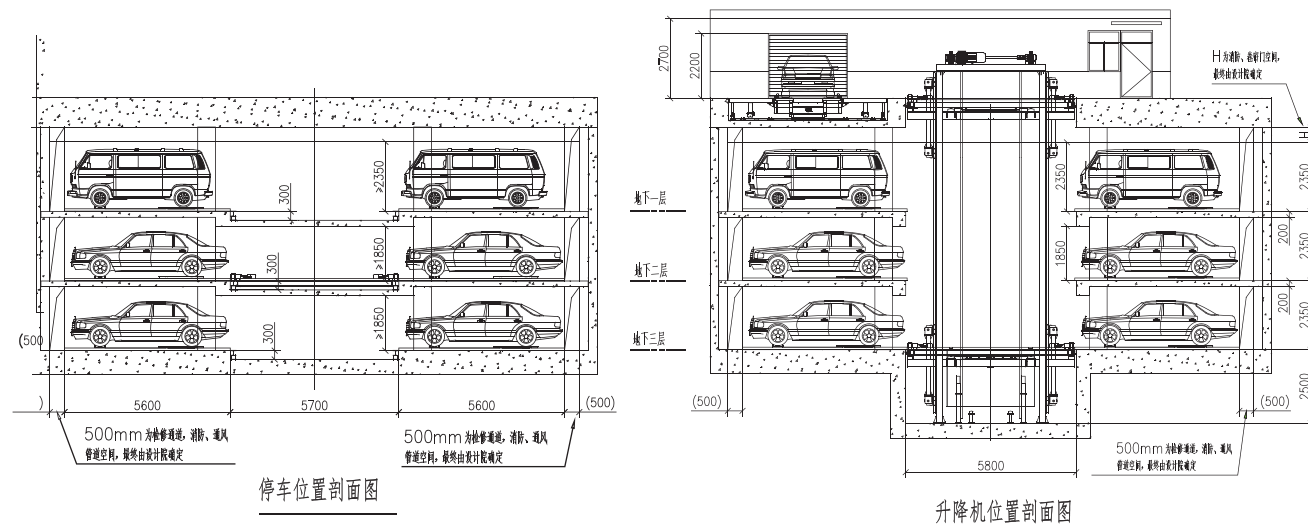


地面层示意图 (GROUND)



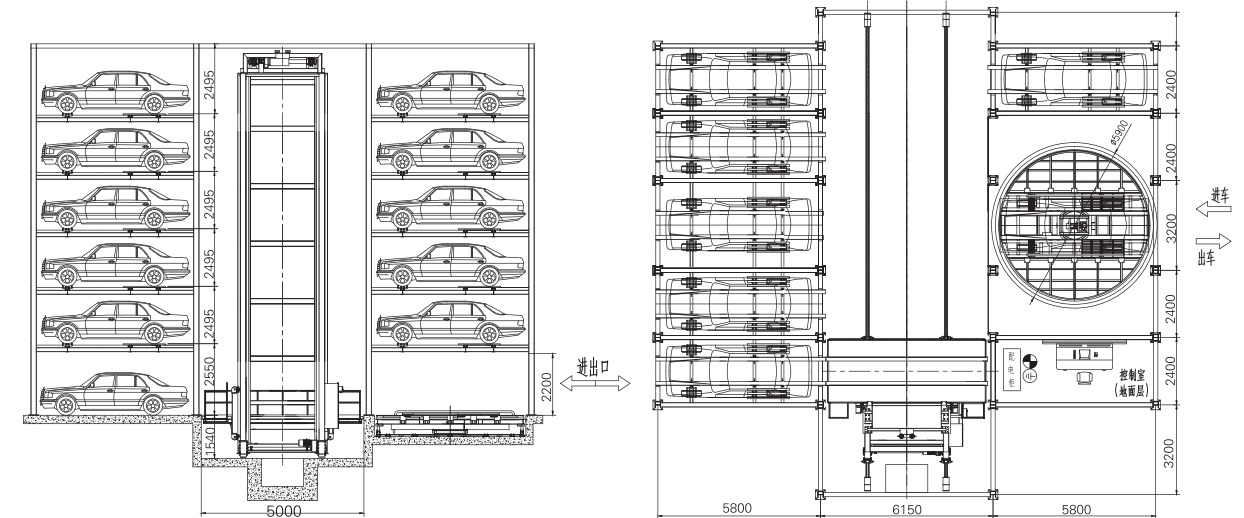
地下一层, 二层, 三层示意图 (B1, B2, B3)

平面移动类—停车设备 AUTOMATED CART PARKING SYSTEM



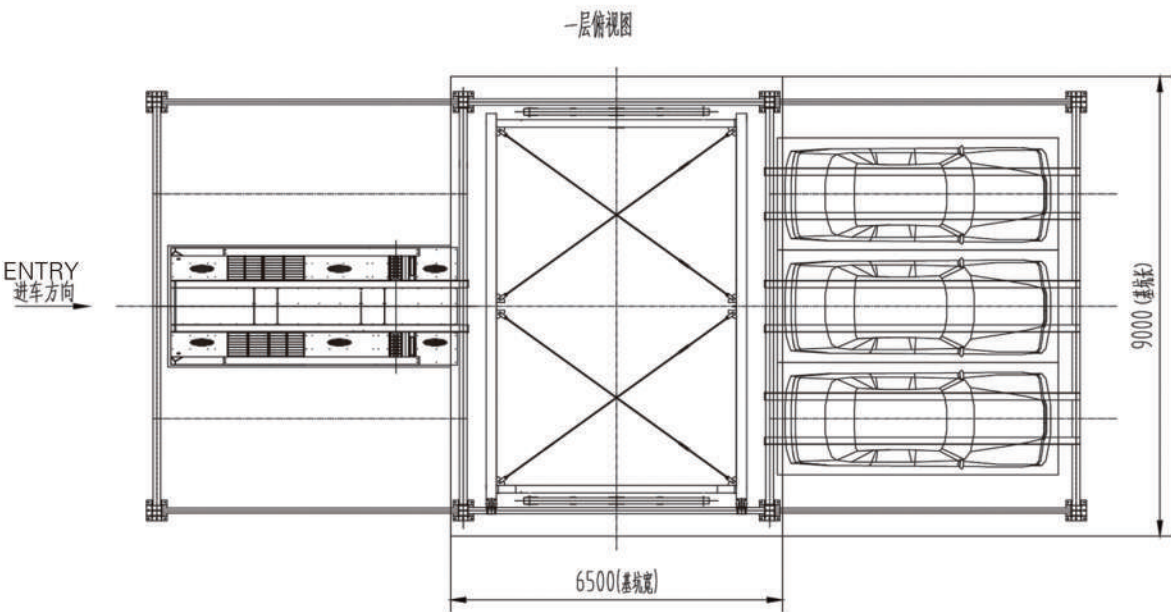
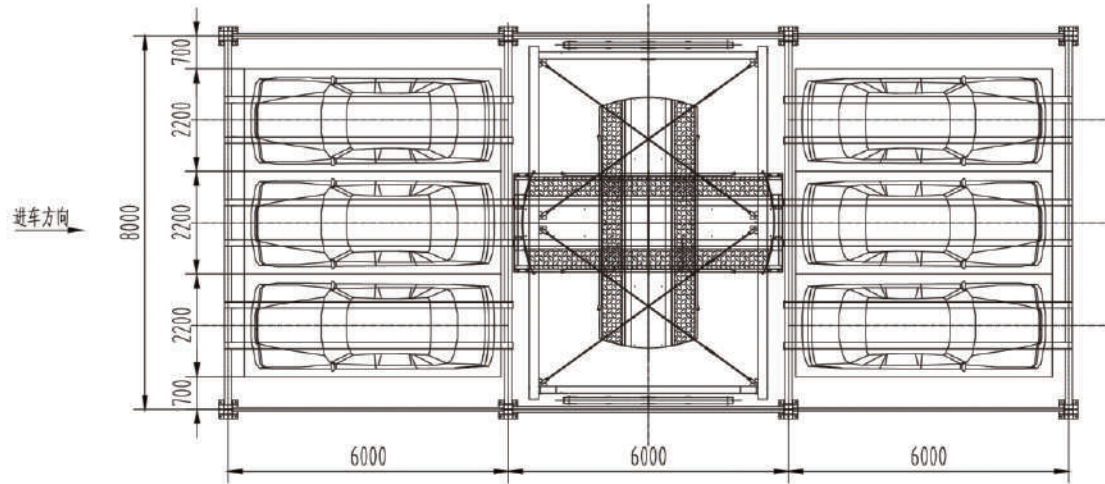
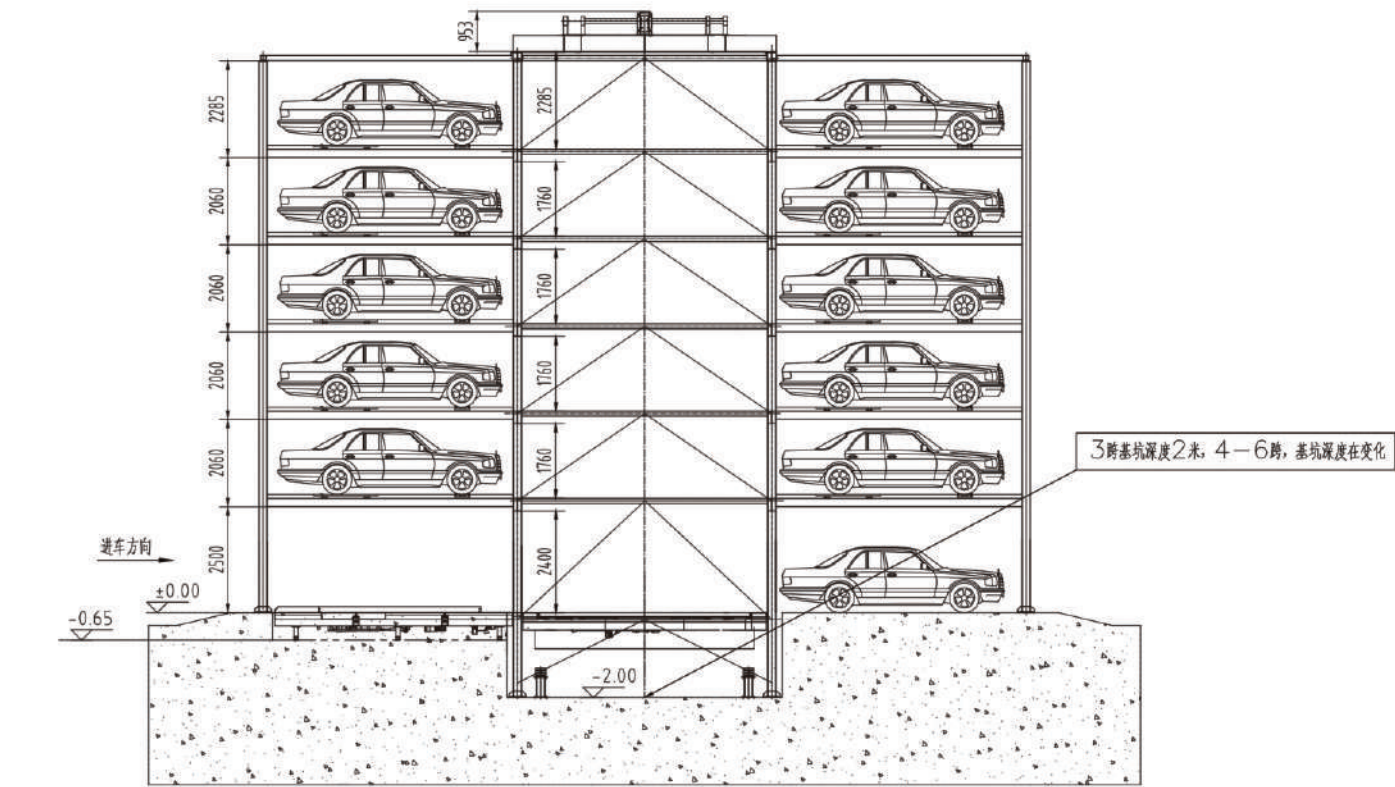
设备形式 Model	PPY		
容车尺寸 Parking specifications	长 (mm)	Length(mm)	≤5300
	宽 (mm)	Width (mm)	≤1900
	高 (mm)	Height (mm)	≤1550
容车重量 (kg)	Weight	≤2350	
电源	Power supply	380V/50HZ 三相五线制	
升降机 Lifting system	升降电机功率 Lifting motor power	22kw	
	升降速度 Lifting speed	45 m/min (VFD)	
回转装置 Rotation device	对中电机功率 Rotation motor power	0.37X2 kw	
	对中速度 Align speed	5.5 m/min	
	回转电机功率 Ration motor power	2.2 kw	
	回转速度 Ration speed	3 r/min	
智能搬运车 Robot system	抱夹电机功率 Pick-up motor power	0.75X4 kw	
	抱夹速度 pick-up speed	3 r/min	
	行走电机功率 Robot traveling motor power	1.1X2 kw	
	行走速度 Robot traveling speed	55 m/min (VFD)	
存取车方式 Park mode	正车入库、正车出库	Reverse	
备注 Memo	存车时收反光镜	When park fold rear mirror	

巷道堆垛类—停车设备 AUTOMATED STACKER PARKING SYSTEM



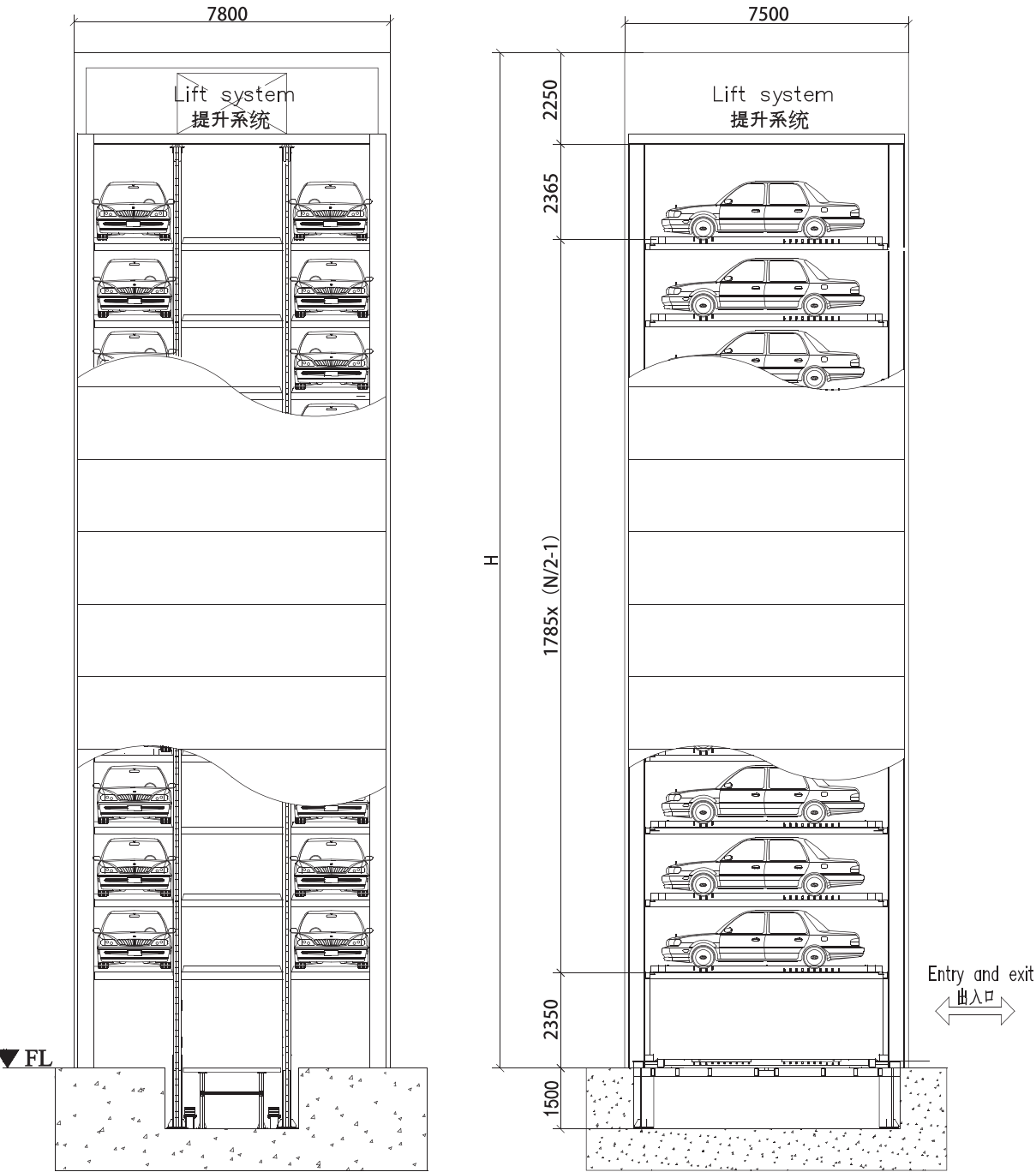
容车数量 Park capacity	56辆 (本图) 56 cars (the figure)		
容车尺寸 Parking specifications	长 (mm)	Length (mm)	≤5300
	宽 (mm)	Width (mm)	≤1900
	高 (mm)	Height(mm)	≤1550
容车重量 (kg)	Weight	≤2350	
电源	Power supply	380V 三相五线制	
堆垛机 Automated stacker	驱动方式 Drive mode	电机驱动+链条提升	
	升降电机功率 Lifting motor power	15 kw	
	升降速度 Lifting speed	30 m/min (VFD)	
	横移电机功率 Lifting motor power	5.5 kw	
对中装置 Align device	横移速度 Lifting speed	40 m/min (VFD)	
	电机功率 Rotation motor power	0.37X2 kw	
回转装置 Rotation device	对中速度 Align speed	5.5 m/min	
	电机功率 Rotation motor power	2.2 kw	
智能搬运车 Robot system	回转速度 Rotation speed	3 r/min	
	抱夹电机功率 Pick-up motor power	0.75X4 kw	
	抱夹速度 pick-up speed	3 r/min (VFD)	
	行走电机功率 Robot traveling motor power	1.1X2 kw	
存取车方式 Park mode	行走速度 Robot traveling speed	55 m/min (VFD)	
	正车入库、正车出库	Reverse	
备注 Memo	存车时收反光镜	When park fold rear mirror	

垂直升降类—大轿厢
VERTICAL LIFTING PARKING SYSTEM-METRO TRANS

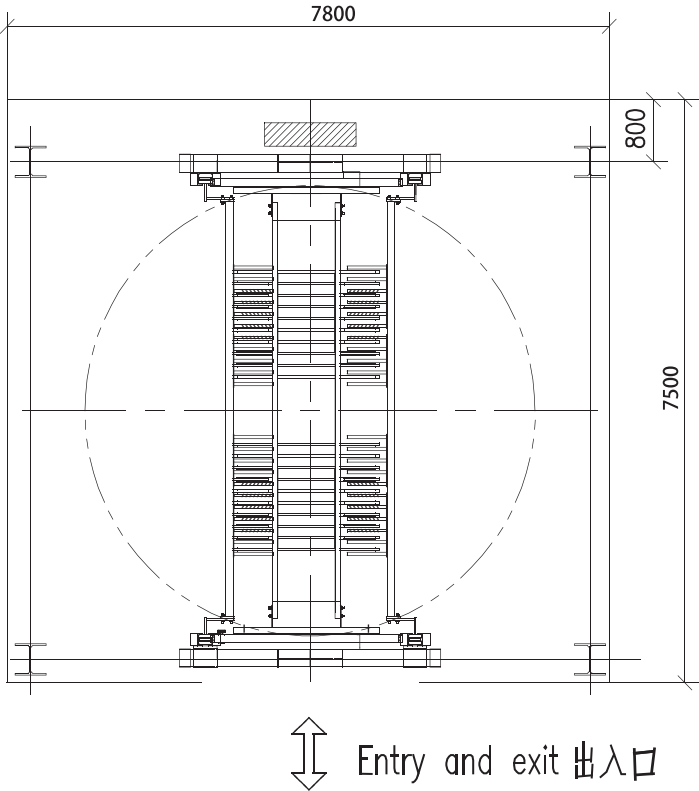


停车规格 Parking specifications	车全长 mm	Length	≤5300
	车全宽 mm	Width	≤1900
	车全高 mm	Height	≤1550
	车重 kg	Weight	≤2350
横移行走电机 Side motor power		1.5X2 kw	横移速度 Side speed 60 m/min
升降传动电机 Lifting motor power		15X2 kw	升降速度 Lifting speed 60 m/min
回转装置 Rotation device	回转支撑电机	Rotation motor power	1.5 kw
	回转速度	Rotation Speed	60 r/min
	回转盘	Rotation	8 s/180°
搬运机器人 Robot system	行走电机	Traveling motor power	1.1X2kw
	行走速度	Traveling speed	34 m/min
	抱夹电机	Pick-up motor power	0.75X2kw
	抱夹臂旋转	Pick-up rotation	90°即10s
驻车室 Parking room	对中电机	Align motor power	0.37X2kw
	最大对中时间	Max align time	3.5 s
	对中速度	Align speed	100 mm/s

垂直升降类—梳齿塔库
VERTICAL LIFTING PARKING SYSTEM-TOWER

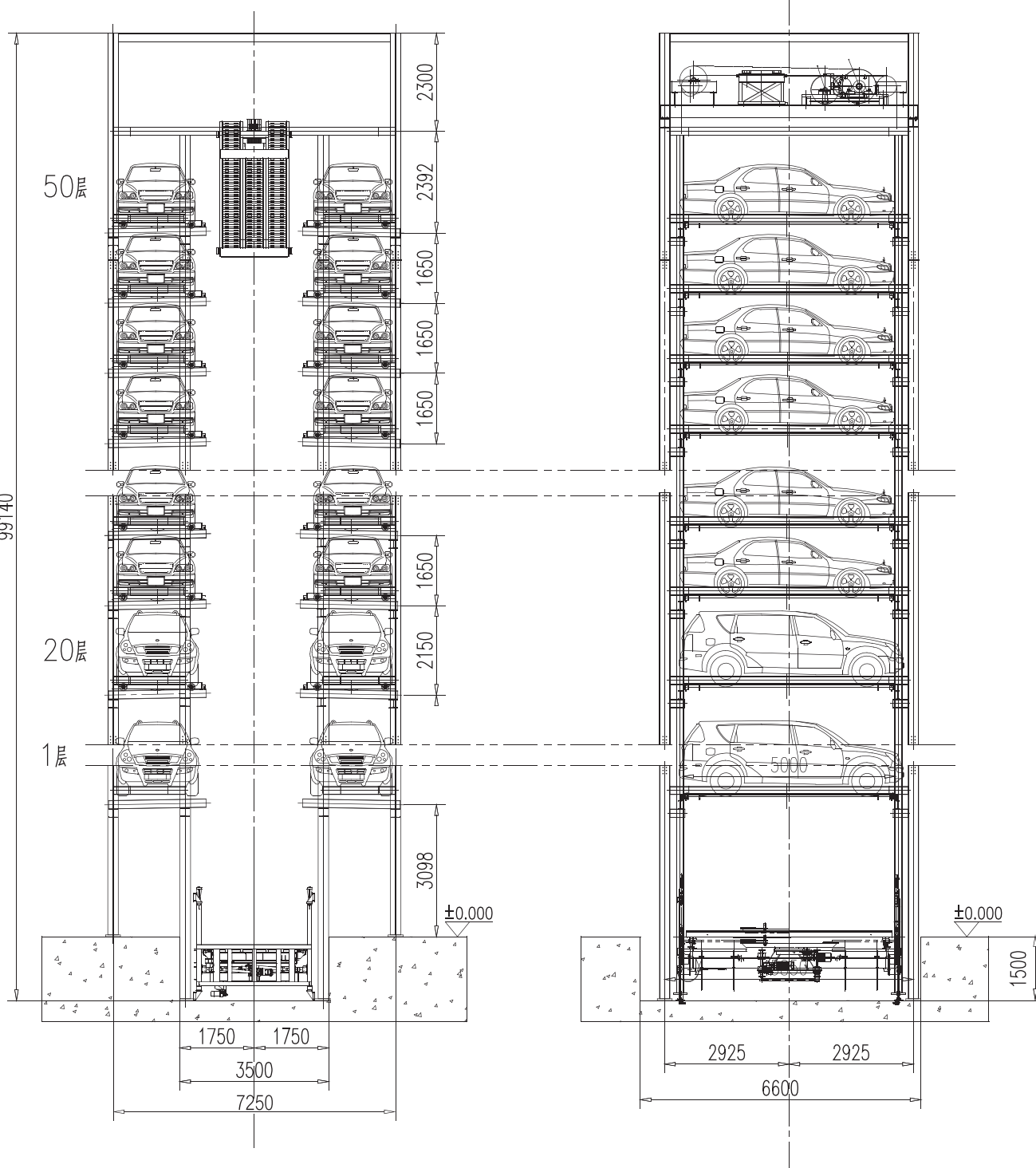


备注：N代表塔库的车位数
NOTE:N IS TOWER PARKING CAR QUANTITY



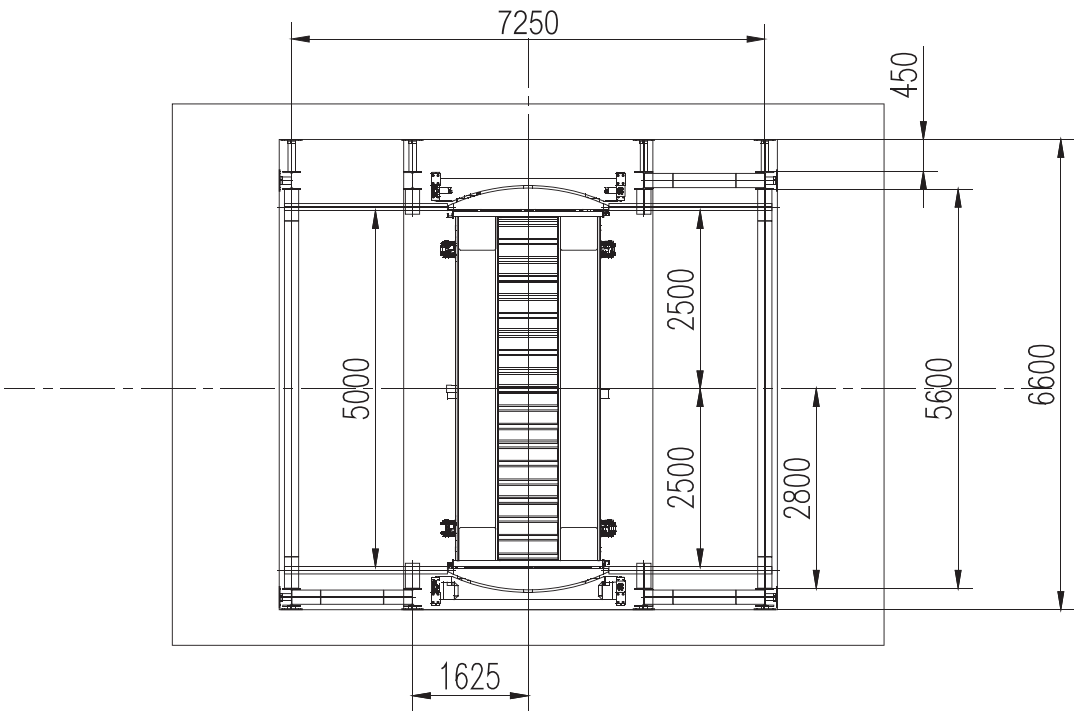
最大容车数量 Max parking No.	50		
停车规格 Parking specification	车全长 mm	Length	≤5300
	车全宽 mm	Width	≤2050(车宽1900)
	车全高 mm	Height	≤1550
	车重 kg	Weight	≤2350
升降速度 (max)	lifting speed	90 m/min	
横移速度 (max)	Slide speed	8 m/min	
回转速度 (max)	Rotation speed	3 rpm	
提升电机功率	Lifting motor power	30 kw	
横移电机功率	Slide motor power	0.2X2 kw	
回转电机功率	Rotation motor power	0.75X2 kw	
操作方式	Operate mode	触摸屏 Touch screen	
电源	Power supply	AC 220V/380V 50HZ	
驱动方式	Drive mode	钢丝绳 / 链条驱动 Wire rope/Chain drive	

垂直升降类一板式塔库
VERTICAL LIFTING PARKING SYSTEM-PLATE TYPE TOWER



备注：此类设备可以安装充电桩，实现电动轿车存车充电

MEMO: THIS TYPE SYSTEM CAN PROVIDE CHARGER FOR ELECTRICAL VIECHLE



主要技术参数 Main technical parameters				
设备形式	Modey	垂直升降 Vertical lifting, 车板 Pallet type		
最大容车数量	Maximum capacity	100		
停车规格 Parking specifications		车全长 mm Length	≤5300	
		车全宽 mm Width	≤1900	
		车全高 mm Height	1-20层≤2050	21-50层≤1550
		车 重 kg Weight	≤2350	
升降速度 (max)	Lifting speed	120m/min (根据项目实际设计 According to the actual)		
横移速度 (max)	Slide speed	30m/min (根据项目实际设计 According to the actual)		
回转速度 (max)	Rotation speed	3r/min		
提升电机功率	Lifting motor power	37kw (根据项目实际设计 According to the actual)		
横移电机功率	Slide motor power	0.75kw		
回转电机功率	Rotation motor power	1.5kw		
最大存车时间	Maximum park car time	66s (根据项目实际设计 According to the actual)		
最大取车时间	Maximum pick up time	111s (根据项目实际设计 According to the actual)		
操作方式	Operate mode	触摸屏 Touch screen		
电源	Power supply	3N,AC,A380V 50HZ		
驱动方式	Drive mode	横移：链条驱动 Slide：Chain drive 升降：钢丝绳 Lift：Wire rope		

售后服务
SERVICE SECTION

质量第一、服务满意 信誉第一、真诚合作
Quality first, the credibility of the first service,
the credibility of the first, sincere cooperation

售后服务体系概况
Overview of after sales service system

公司经过多年的健康发展，初步建立了一套较为完整的售后服务体系。根据用户不同的要求，在保证设备安全可靠运行的前提下，使用户的投资成本降至最低，并达到最好的经济效益。

公司经过几年来的售后服务经验，我们不但建立了一支完善的售后服务队伍，而且还建立和完善了我们的售后服务管理体系。公司售后服务部现有专业服务人员三十名，配有售后服务专用车辆，拥有全套的机械式停车库维护和保养设备及工具，设有7*24小时售后服务专用电话，在接到用户的“报修”电话后，售后服务人员可在24小时内到达现场对故障作应急处理。公司在不同地区设有备品备件仓库，可保证车库所有备品备件及时供应。

验收交付后，设备保修期为1年。保修期内因保养、维修而发生的一切人工、材料费用一律免收。

在本工程中可为您提供的售后服务内容主要包括：

- ☐ 对用户进行操作及安全培训
- ☐ 对车库进行定期检查维护
- ☐ 紧急故障处理
- ☐ 针对性修理
- ☐ 有关技术咨询服务等

车库的维护保养是一个对车库进行全面检查的过程。它要求维保人员不但要对整个车库有系统的了解，同时更要求维保人员对零件调整与磨损程度等细节熟知。因此，经过训练的青岛茂源停车设备制造有限公司员工在做维护修理工作中，具备了电气、电子、计算机、机械方面的基本知识；具备了停车设备原理、车库运行和应遵循的各项标准知识等系统知识，同时还具备了确保设备使用者和维修者的安全知识。我们的维保人员将为贵方的停车设备进行定期的、有计划的预防保养。

After years of healthy development, the company has established a complete set of after-sales service system. According to different requirements of users, in the premise of ensuring the safe and reliable operation of the equipment, the investment cost of the user is minimized, and the best economic benefit is achieved.

Company after several years of service experience, we have not only established a perfect after-sales service team, but also to establish and improve the management system of our after-sales service Company customer service Service Department of the existing professional service personnel thirty customer service with special service vehicles.with maintenance and repair equipment and tools mechanical parking is provided with a full set of 7*24 hours customer service service dedicated telephone, after receiving the users"repair"after the call, customer service service personnel can arrive within 24 hours for emergency treatment of fault the scene. The company is equipped with spare parts warehouse in different regions, can ensure the timely supply of spare parts in the garage all.

Equipment warranty period is 1 years. The warranty period of maintenance, maintenance and all artificial materials, the fees shall be exempted.

In this project can provide you with the service content mainly includes:

- Operation and safety training for users
- Emergency treatment
- Maintenance
- The relevant technical advisory services

Parking equipment maintenance is a comprehensive inspection of the parking equipment process. It requires maintenance personnel not only have to understand the whole system of the parking equipment, and require more maintenance personnel familiar with parts adjustment and the degree of wear and other details. Therefore Qingdao Mao Yuan Metal Group limited company through professional training staff in the maintenance and repair work,have the basic knowledge of electrical, electronic, computer mechanical; have knowledge of parking equipment, parking equipment and operation principle should follow the standard of the knowledge system, but also the ability to ensure the safety of equipment and user knowledge the maintenance worker. Our staff will conduct planned maintenance, equipment.

售后服务内容
Overview of after sales service system

售后服务的内容基本分为对用户进行操作培训、定期检查、紧急故障处理、设备的针对性修理、行政性业务等方面。

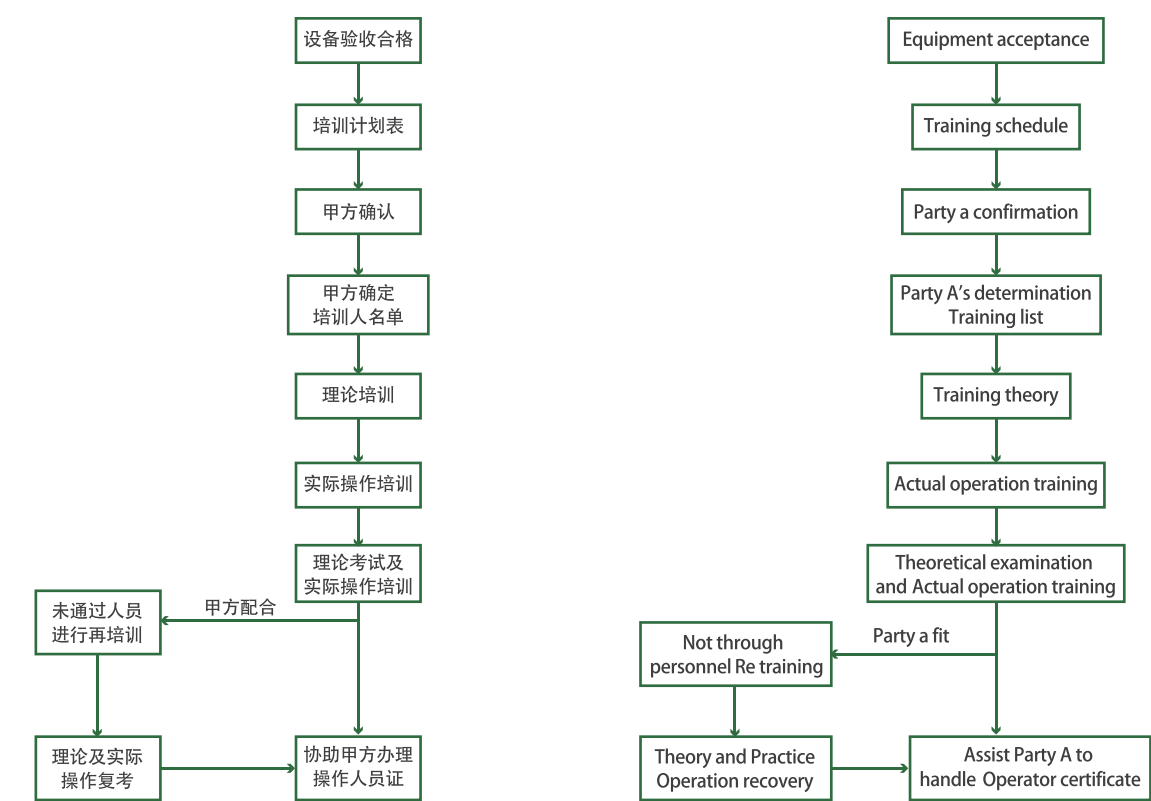
The content of after-sales service is divided into the user to operate the training, regular inspection, emergency treatment, equipment targeted repair, administrative business, etc..

对用户进行操作培训
The operation of the user trainingtraining materials provid

培训资料由我公司免费提供。培训时间不少于16小时；对车主的培训不少于2小时。未经培训的车库管理人员和车主，不得对车库进行操作和使用。

Training time is not less than 16 hours; the owner of the training is not less than 2 hours. Without the training of the garage management and owners, not to operate and use the garage.

培训计划 Training Plan



培训目标 Training Aim

1. 车库管理员应熟悉车库的性能：
 - 1) 车库管理员应该熟悉掌握产品的结构性能。
 - 2) 车库管理员应简单了解车库的工作原理，熟练掌握安全操作的技能。
 - 3) 了解车库动力电及配电柜高压电的防护及管理。
 - 4) 对车库热继电器、限位开关、接触开关、熔断器、漏电保护等保护装置做简单了解。
 - 5) 对各处的光电安全保护做简单了解。
 - 6) 简单故障的处理。
2. 业主培训目标：
 - 1) 了解停车设备的操作界面，熟练使用各种操作方式。
 - 2) 掌握安全运行规程，牢记安全操作注意事项。

- 1 parking equipment manager should be familiar with the performance of the garage:
 - 1) parking equipment manager should be familiar with the structure and performance of the product.
 - 2) parking equipment manager should be simple to understand the working principle of the garage, familiar with the safe operation of the skills.
 - 3) knowledge of the protection and management of high voltage power in the power and power distribution cabinets
 - 4) to make a simple understanding of the garage thermal relay, limit switch, contact switch, fuse, leakage protection and other protective devices.
 - 5) to make a simple understanding of the photoelectric safety protection.
 - 6) simple fault treatment.
- 2 owner training objectives:
 - 1) to understand the operating interface of parking equipment, skilled use of a variety of operating modes.
 - 2) grasp the safe operation rules, keep in mind the safe operation precautions.

培训方案 Training program

- 1) 人数：8 人
- 2) 时间：特种设备检测中心正式验收通过后移交给业主正式使用前为期一周，每日8小时的培训课程。
- 3) 地点：在业主指定的会议室和车库现场。
- 4) 内容：了解设备的性能、工作原理、操作、维护规程、故障分析与处理等，达到熟练操作、自行排除简易故障的程度，并着重于以下三点：
 - ◎ 应急处理
 - ◎ 正常操作模式
 - ◎ 定期保养项目实施
 - ◎ 设备安全意识

质保期满后提供终身有偿维修、保养服务

The operation of the user training training materials provid

- 1) 大包方式即对客户车库进行有计划、全面、持续、规范的维修保养及各种修理工作。维修保养包括对设备的预防性保养、例行检查、定期安全检查、24小时召修服务及对选择的各种零部件维修工作。
- 2) 小包方式即对客户车库进行有计划、全面、持续、规范的维修保养及一些零部件修理。维修保养包括对车库设备的预防性保养、例行检查、定期安全检查、24小时召修服务。



