

PROFESSIONAL PARKING EQUIPMENT PROVIDER

MAIHAISHENG INDUSTRIAL EQUIPMENT (SHANGHAI) CO., LTD.

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Mai Haisheng 
M A I H A I S H E N G

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MAIHAISHENG INDUSTRIAL EQUIPMENT (SHANGHAI) CO., LTD.



QUALIFICATIONS AND CERTIFICATIONS



Maihaisheng Industrial Equipment (Shanghai) Co.,Ltd. is headquartered in Jiading District , Shanghai. It has a large production and storage base in Jinan , Shandong.It is a professional three-dimensional garage company integrating mechanical intelligent garage research and development , design , production and manufacturing ,engineering installation and after-sales service.

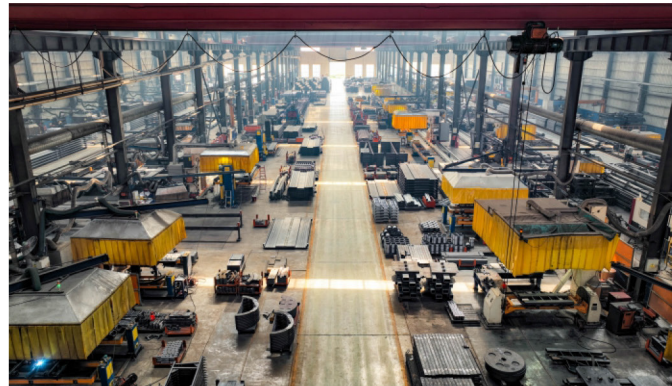
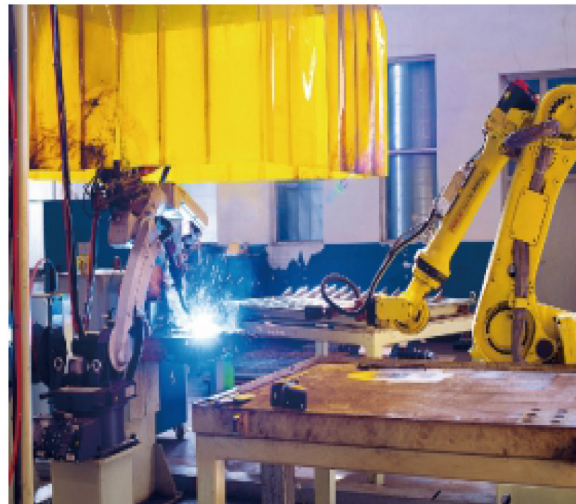
The company covers an area of 45 mu and is equipped with a steel structure workshop covering an area of 12,000 square meters. Including 5,000 square meters of production and assembly workshop. A 2,250 square meters restaurant and dormitory,warehouse and other hardware facilities.

The company has passed the certification of ISO9001:2000 quality management system certification; computer system integration level three certification; Shanghai dual-soft enterprise high-tech enterprise and other qualification certifications.

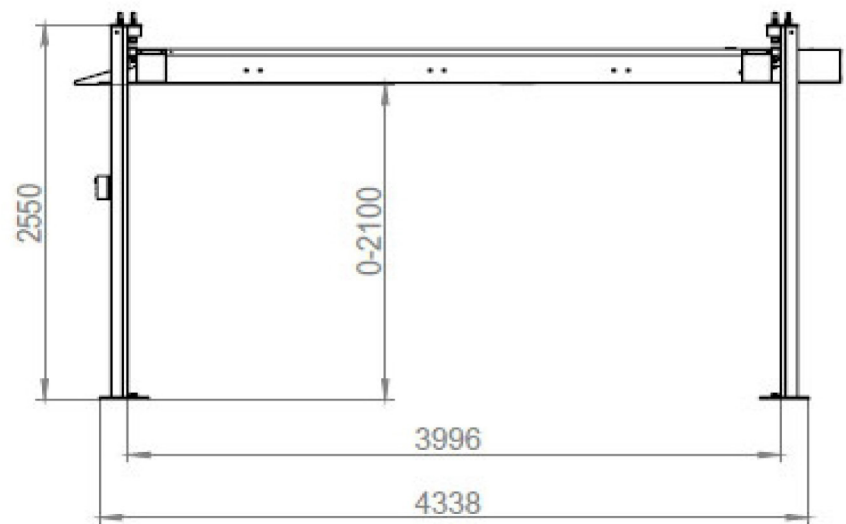
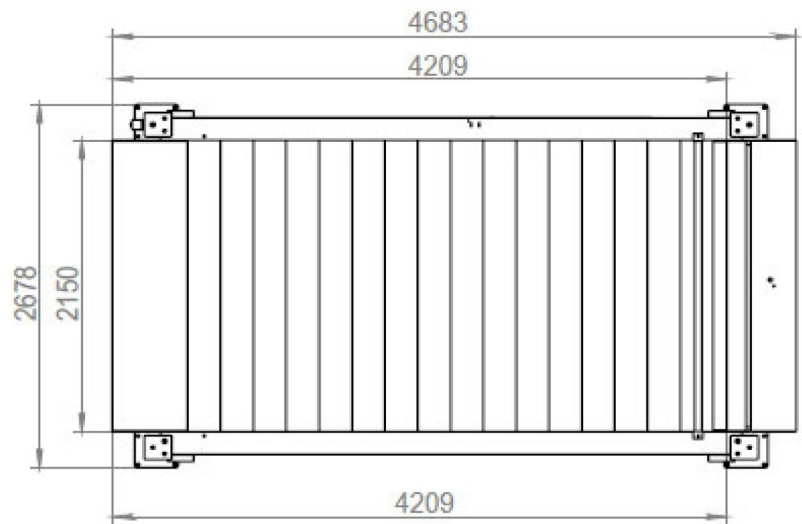
The company currently has 65 professional and technical talents,including 12 engineers and 5 senior engineers,with strong professional and technical strength.

The company's main products include more then tens of eight categories,including lifting ,horizontal movement ,simple lifting ,and vertical circulation.

PRODUCTION EQUIPMENT

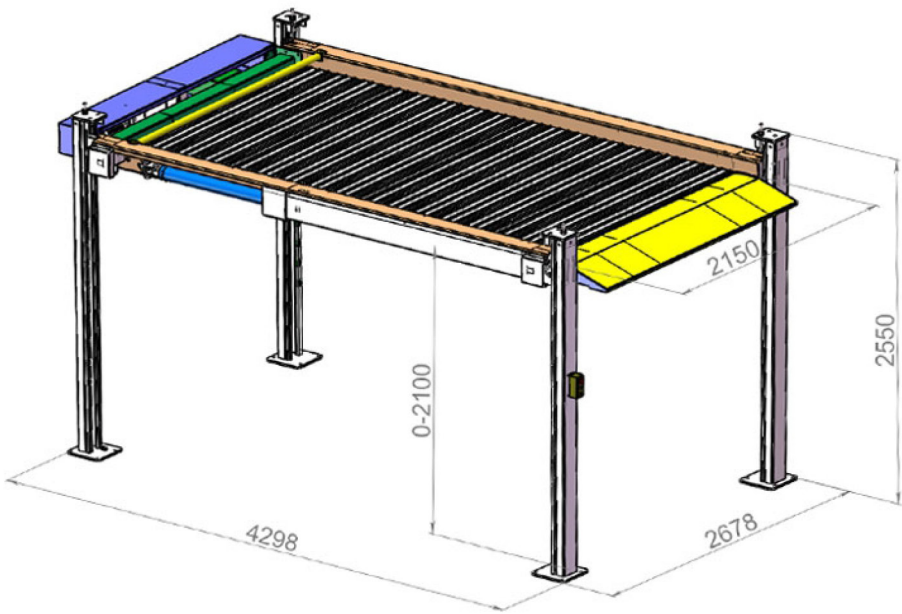


4 POST PARKING LIFT - PJS

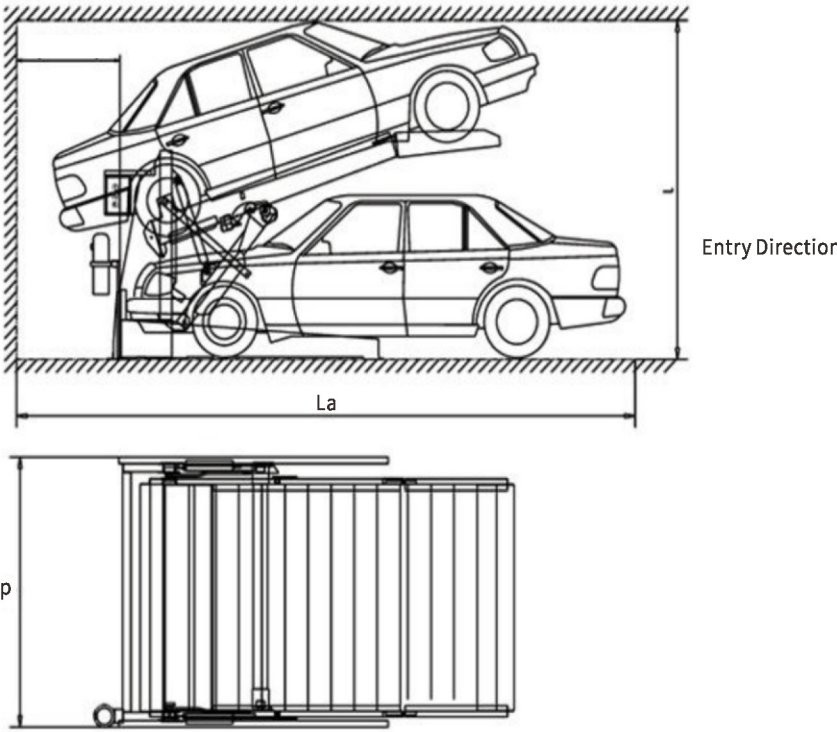


Applicable Vehicle Parameters	
Code Name	Large Vehicle
Length(mm)	≤5300
Width(mm)	≤1900
Height(mm)	≤2000
Weight(Kg)	≤2300/2700

Drive Method	Motor + Chain
Control Method	Relay - Contactor Control
Operation Method	Button/Card Swipe/Face Recognition
Motor Power(Kw)	2.2
Lifting Speed (m/min)	2.2-2.3
Time(s):Average Vehicle Access	≤70



TILTING TYPE PARKING SYSTEM - PJS

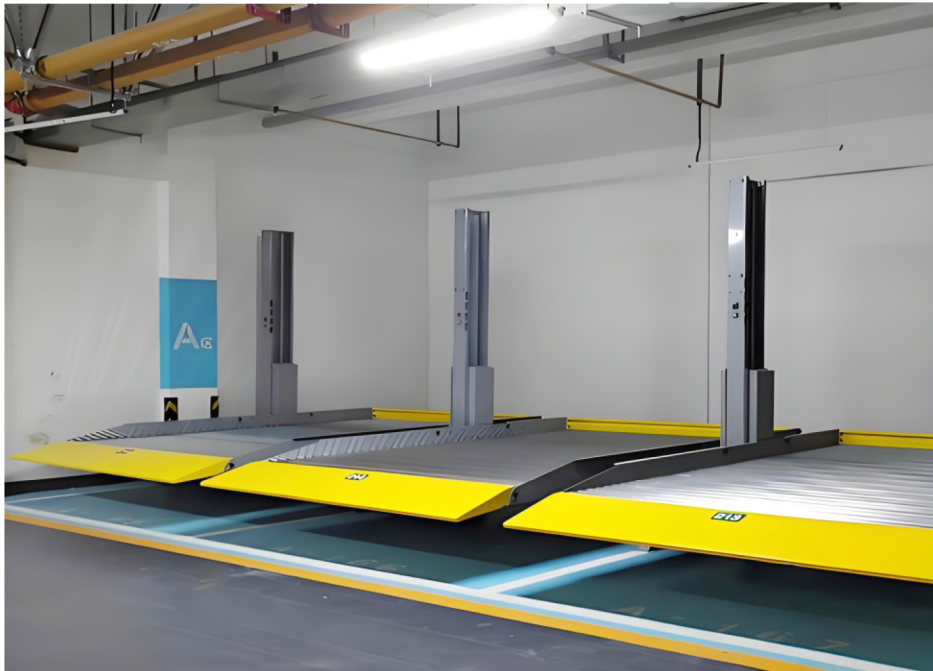
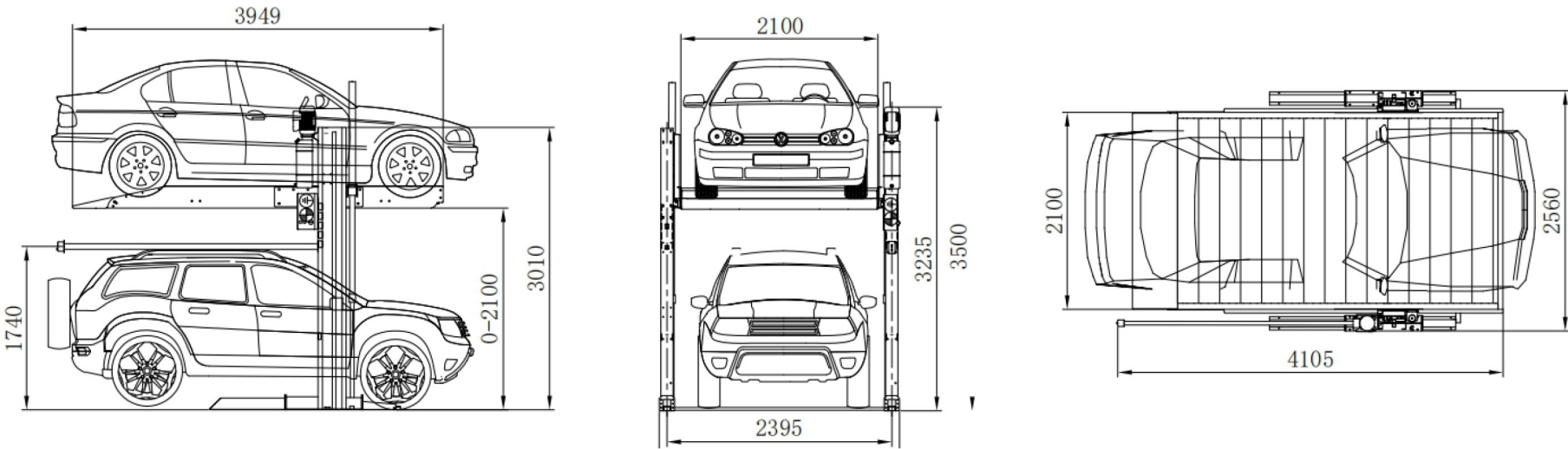


Height Under Beam(mm)	≥3100
Drive Method	Hydraulic Drive
Drive Power Supply	Three-phase five-wire system AC 380V 50HZ
Motor Power (Kw)	2.2
Lifting Speed (m/min)	2.5
Operation Method	Key Switch Operation、 Automatic Reset、 Face Recognition

Vehicle Model Code		MZ	LZ
Wp × La(mm)		2500 × 5800	2600 × 6000
Applicable Vehicle Parameters	Length(mm)	≤ 5000	≤ 5300
	Width(mm)	≤ 1900	≤ 2000
	Height(mm)	≤ 1550	≤ 1550
	Weight (Kg)	≤ 2000	≤ 2000

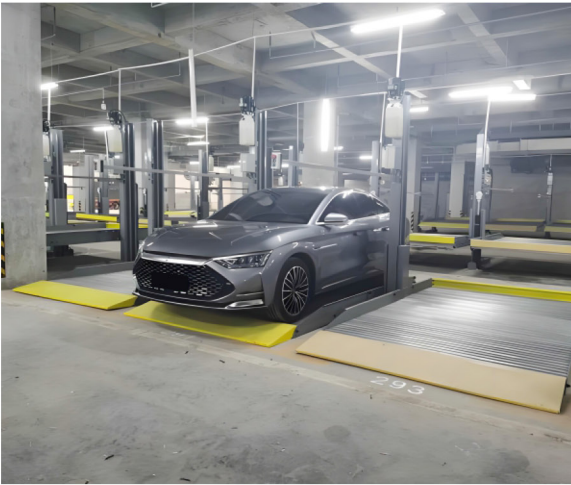


2 POST PARKING LIFT - PJS

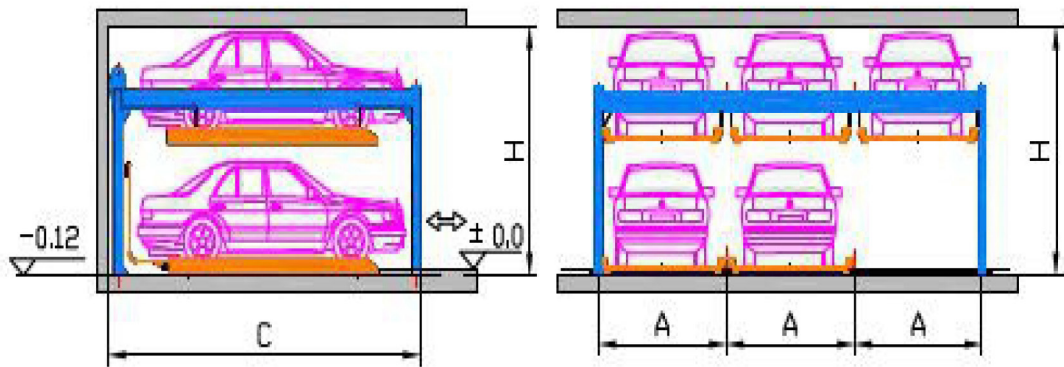


Applicable Vehicle Parameters	Code Name	Large vehicle	Extra-large vehicle
	Length(mm)	≤ 5000	≤ 5300
	Width(mm)	≤ 1900	≤ 2000
	Height(mm)	≤ 2000	≤ 2000
	Weight (Kg)	≤ 2300	≤ 2700

Drive Method:	Motor + Chain
Control Method :	Relay Contactor
Operation Method:	Button /Face Recognition
Motor power (Kw):	2.2
Lifting speed (m/min) :	4-6
Average Vehicle Access Time(s):	≤45



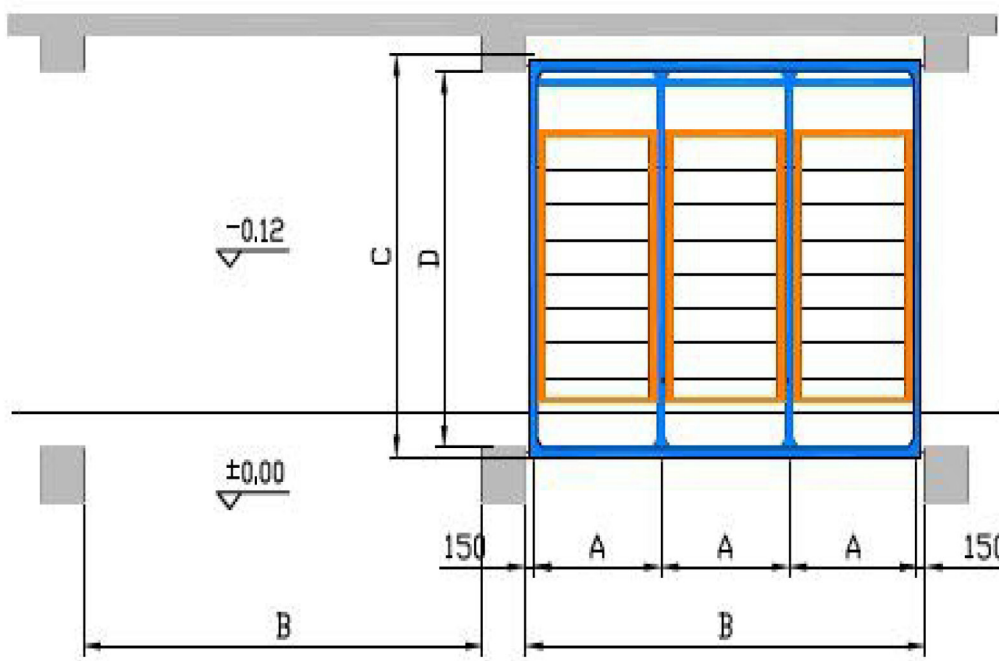
VERTICAL PUZZLE PARKING SYSTEM



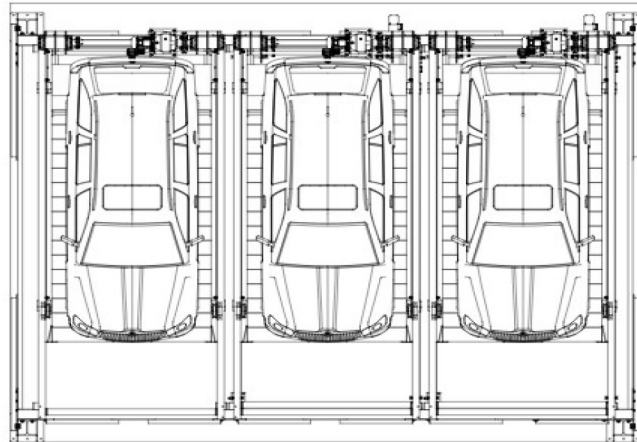
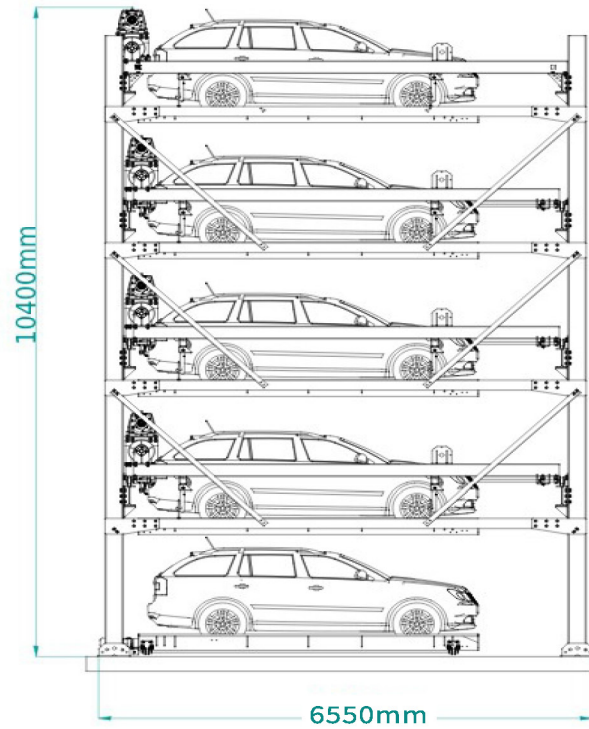
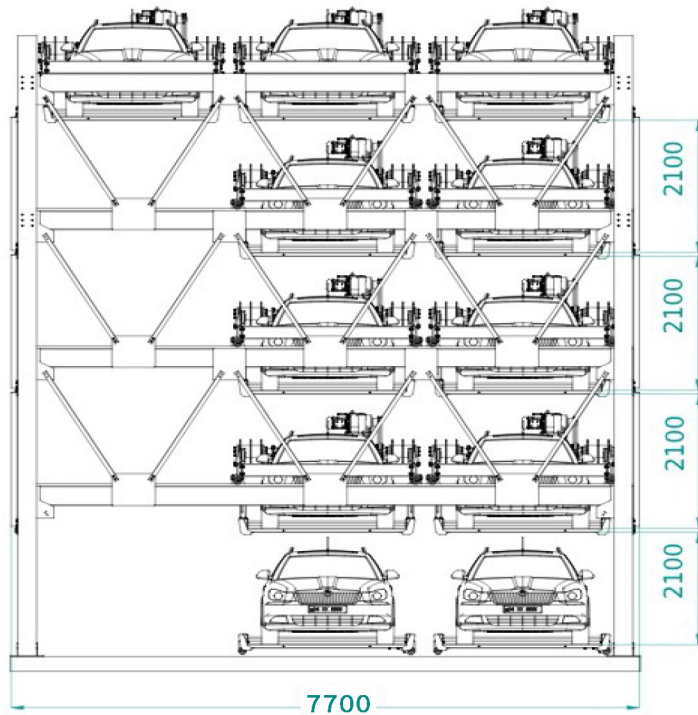
Applicable Vehicle Parameters	Vehicle	Extra-large vehicle	Large Vehicle
	Length(mm)	≤5300	≤5000
	Width(mm)	≤1900	≤1850
	Height(mm)	≤1500/2000	≤1500/2000
	Weight(Kg)	≤2350	≤1700, ≤2000

Garage capacity	Code Name	Extra-largevehicle	LargeVehicle
	A (mm)	2500	2400
	B (mm)	≥7800	≥7500
	C (mm)	≥6150	≥5850
	D (mm)	≥5750	≥5450
	H (mm)	≥3600	

Drive Method	Motor + Chain
Control Method	PLC
Operation Method	Button/Card Swipe/Face Recognition
Motor Power (Kw)	Sliding 0.2/ Lifting 2.2
Lifting Speed (m/min)	4-6
Sliding Speed (m/min)	7-8
Power Supply	Three-phase five-wire system AC 380V 50Hz



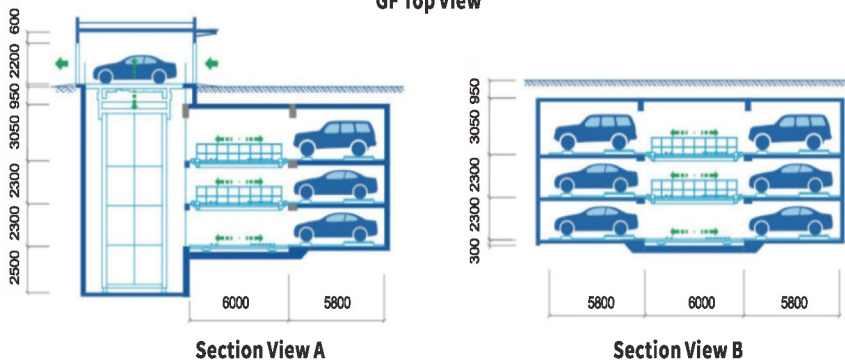
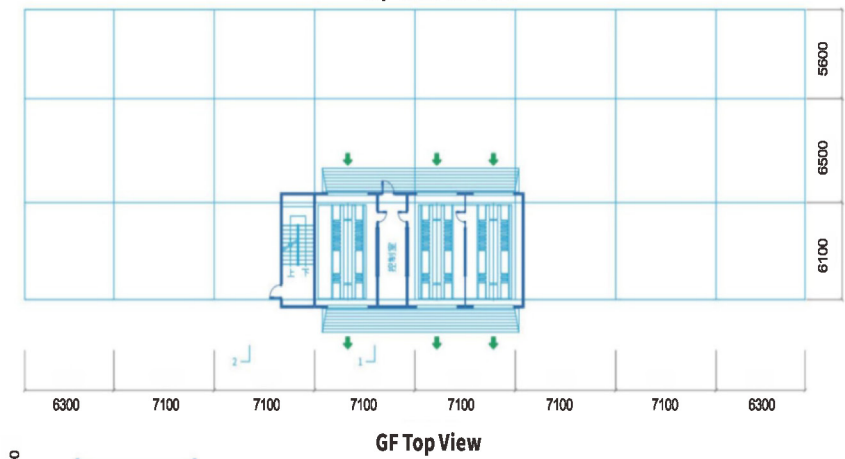
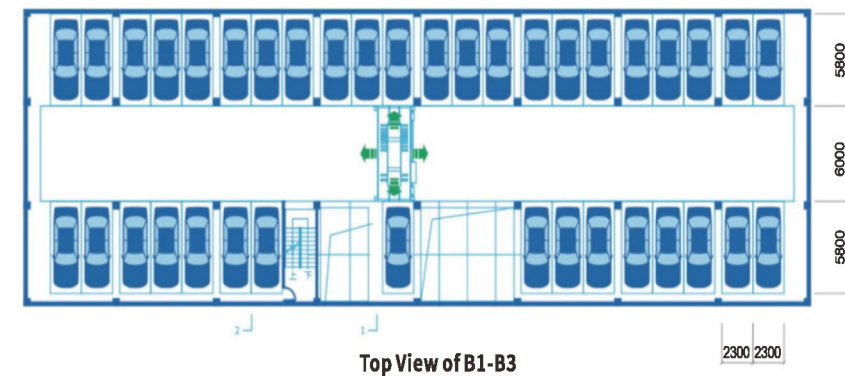
VERTICAL PUZZLE PARKING SYSTEM



Drive Method	Motor + Chain
Control Method	PLC
Operation Method	Button/Card Swipe/Face Recognition
Motor Power (Kw)	Sliding 0.2/ Lifting 2.2/3.7
Lifting Speed (m/min)	4-6
Sliding Speed (m/min)	7-8
Power Supply	Three-phase five-wire system AC 380V 50Hz



PLANE MOVING PARKING SYSTEM - PPY



Model Name	PPY Plane Moving Parking System
Equipment Layers	2-12 Floors
Vehicle Capacity	According to Customer Requirements
Vehicle Specifications(L×W×H)	5300x1900x1550/2000
Vehicle Weight	2000kg/2350kg
Average Vehicle Access Time	90 Seconds
Single Warehouse Floor Area	Width: approx. 19m, determined by lane length

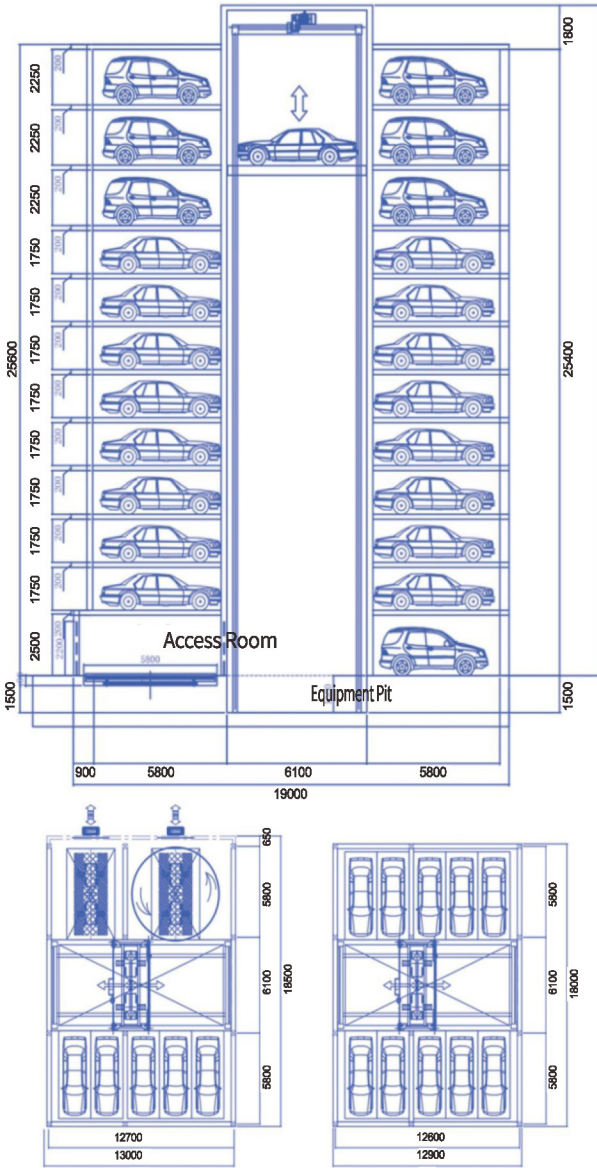
Handling Method	Comb Teeth Handler/Mechanical Arm Handler
Lifting Motor(Kw)	7.5-22
Traversing Motor(Kw)	2*1.5
Lifting Speed(m/min)	30-90
Traversing Speed(m/min)	45-60
Operation Method	PLC Computer Intelligent Control, Face Recognition
Power Supply	Three-Phase Five-Wire System, AC 380V 50Hz

Product Features

1. Fully automated parking equipment, robot handling, fast storage/retrieval.
2. No ramps, space-saving, high vehicle density, maximizing land use.
3. Ideal for large garages with short lanes but many floors.
4. Equipped with safety devices, safe and reliable, preventing accidents.
5. Photoelectric safety detection, controlling vehicle specs and quantity.
6. Generally no forced ventilation or large-area lighting, energy-saving.



VERTICAL LIFT TYPE RECTANGULAR TOWER GARAGE



Model Name	PCS Vertical Lift Type Rectangular Tower Garage
Equipment Layers	8-16 Floors
Vehicle Capacity	Per Customer Requirements
Vehicle Specifications(L×W×H)	5300x1900x1550/2000
Vehicle Weight	2000kg/2350kg
Operation Method	PLC Computer Intelligent Control, Face Recognition

Drive Method	Comb Teeth Exchange/Mechanical Arm Exchange
Lifting Motor(Kw)	18.5-22
Traversing Motor(Kw)	2*1.5
Lifting Speed(m/min)	60
Traversing Speed(m/min)	45
Power Supply	Three-Phase Five-Wire System, AC 220V 380V 50Hz

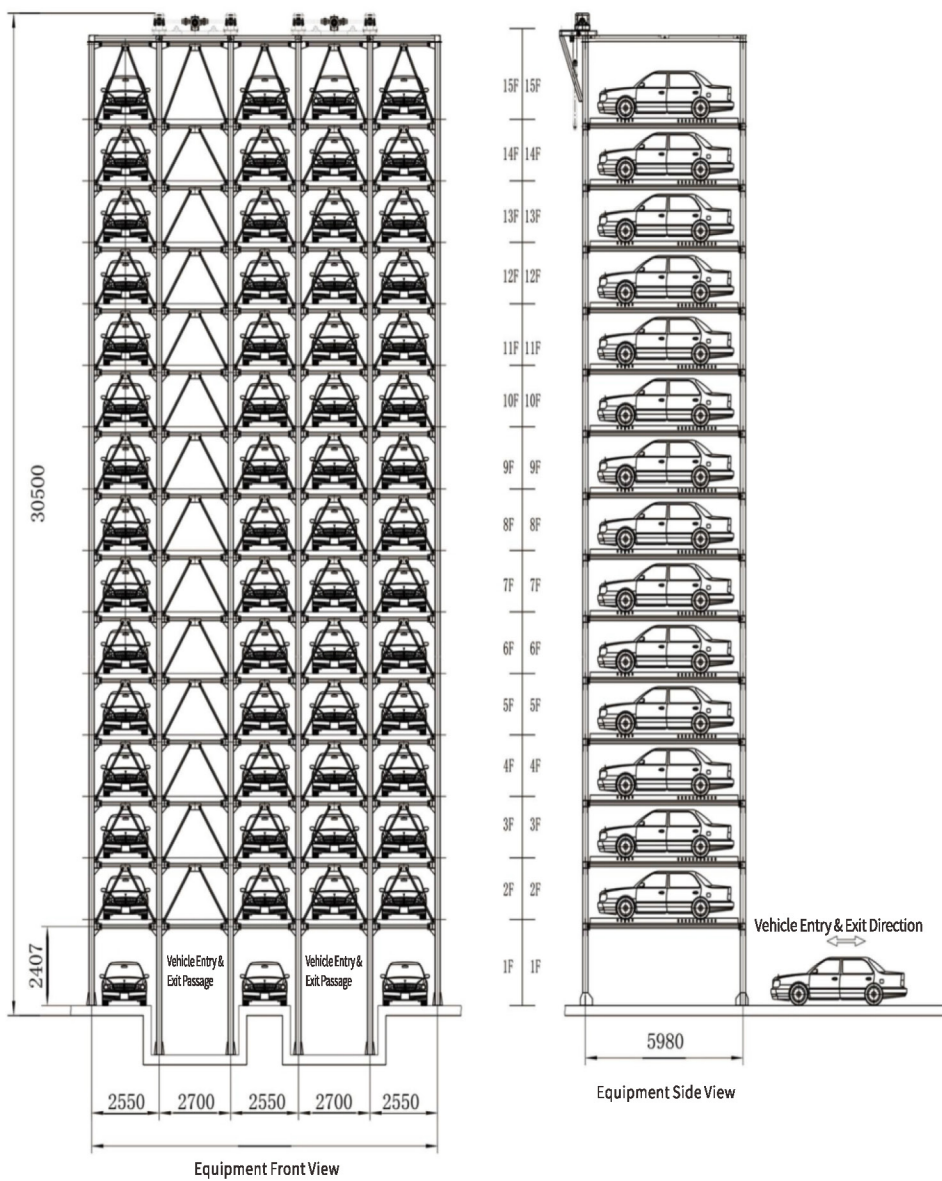


Product Features

1. Robot Handling.
2. Integrates advantages of vertical lifting, horizontal movement & aisle stacking; vehicles achieve fast horizontal & vertical movement via lifting platform.
3. Compared with vertical lift tower garages, more single-floor parking spaces (6-10 units), max. 16 floors.
4. High space utilization, small footprint (smaller than aisle stacking & horizontal movement types); min. average area per vehicle only 1.2m²



VERTICAL LIFTING MECHANICAL PARKING SYSTEM



Model Name	PCS Vertical Lifting Mechanical Parking System
Equipment Layers	7-15 Floors
Vehicle Capacity	Per Customer Requirements
Vehicle Specifications(L×W×H)	5300x1900x1550/2000
Vehicle Weight	2000kg/2350kg
Operation Method	PLC Computer Intelligent Control,Face Recognition

Drive Method	Comb Teeth Exchange ,Chain
Motor Power(Kw)	18.5(15 Layers)
Traversal Motor(Kw)	0.2
Lifting Speed(m/min)	50
Traversal Speed(m/min)	8
Power Supply	Three-Phase Five-WireSystem, AC 220V 380V 50Hz

Equipment Overview

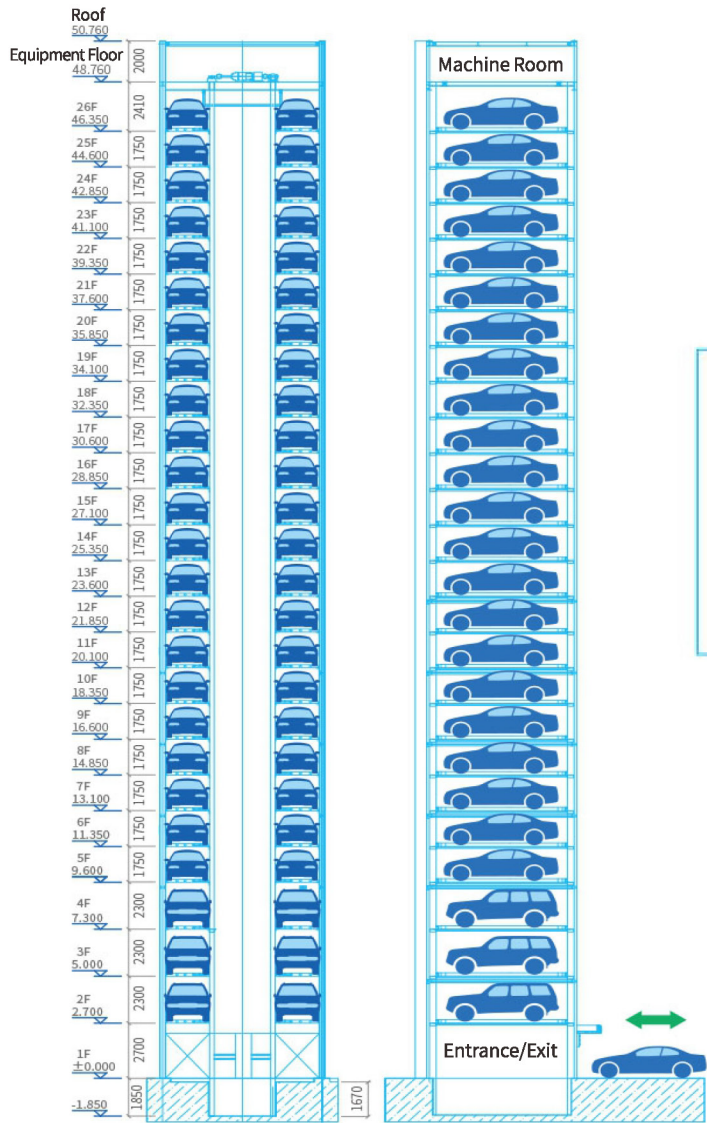
Elevators are arranged in alternate columns, and parking bays are translatable. Any elevator can serve as a turnover space. During vehicle storage and retrieval, parking bays (with vehicles) move into the nearest elevator to complete vehicle transfer — either from parking bays to elevators or from elevators to parking bays.

Product Features

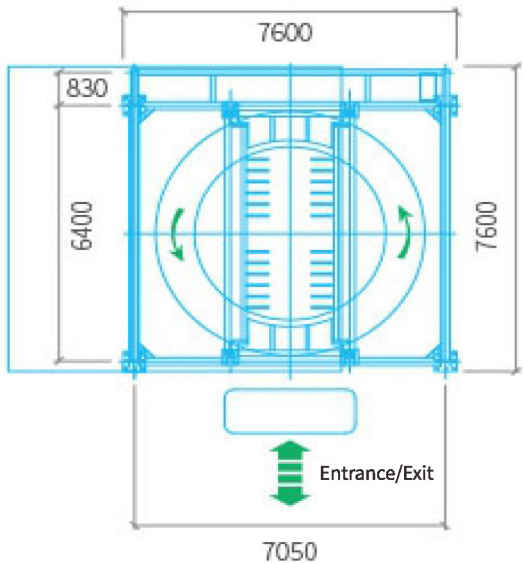
1. Fully automatic & intelligent parking system: fully enclosed structure, small footprint, large parking space capacity, and fast vehicle retrieval.
2. Small footprint: optimal space utilization to maximize parking spaces.
3. Flexible layout: can be arranged in rows. Suitable for narrow, height-restricted plots (height ≤ 15m).
4. PLC intelligent computer control system & face recognition system.



PCS AUTOMATED PARKING SYSTEM



Sectional Drawing



Model Name	PCS Automated Parking System
Number of Floors (Equipment)	15-50 Floors
Vehicle Capacity	Standard Single Tower: 50 Vehicles (25 Floors)
Vehicle Specifications(L×W×H)	5300x1900x1550/2000
Vehicle Weight Capacity	2000kg/2350kg
Average Vehicle Access Time	75 Seconds
Floor Area per Unit	58 m²

Equipment Overview

Vertical lifting parking equipment (commonly known as "tower parking"): Vehicles/car-carrying pallets are lifted to the designated floor by the lifting unit, then moved into the parking space via the traversal mechanism on the unit. For retrieval, the reverse applies: the traversal mechanism sends vehicles/car-carrying pallets from the parking space to the lifting unit, which lowers to the entrance/exit. The driver retrieves the vehicle once the garage opens.

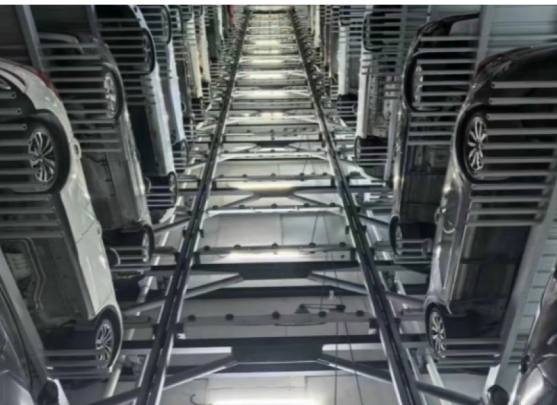
Garage frame structure: concrete type, steel structure type

Handling method: comb exchange, pallet exchange

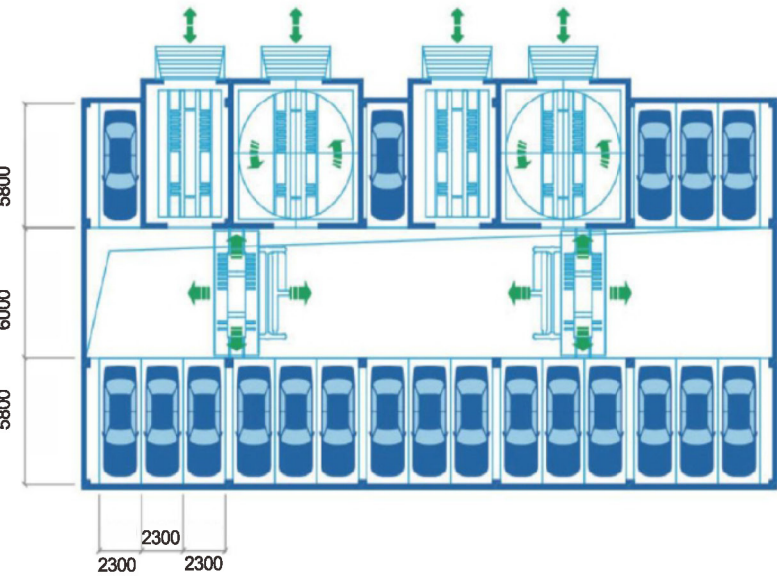
Handling Method	Comb Exchange / Pallet Exchange
Motor Power(Kw)	22(25 Layers)
Traversal Motor(Kw)	0.2
Lifting Speed(m/min)	90
Traversal Speed(m/min)	25
Operation Method	PLC Intelligent Computer Control, Face Recognition
Power Supply	Three-Phase Five-Wire System, AC 380V 50HZ

Product Features

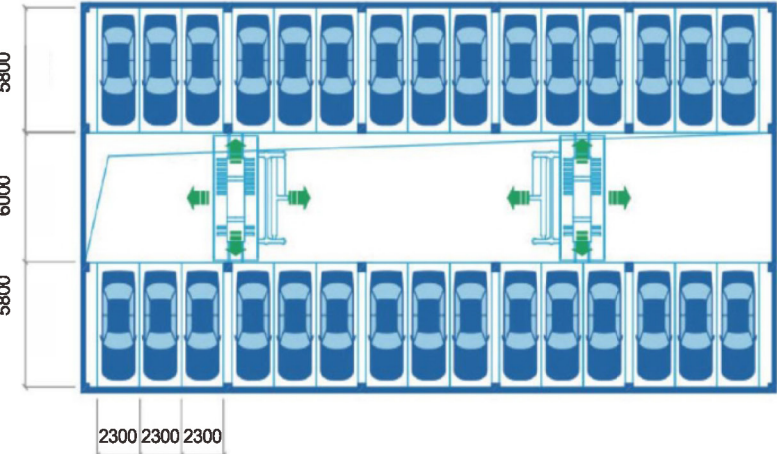
1. Fully automatic intelligent parking system: fully enclosed, small footprint, more spaces, fast retrieval
2. Suitable for high-density parking; maximizes spaces. Single tower: 25 floors, 50 vehicles
3. Flexible layout: multiple single-row towers or 4-tower "field" type; installable above-ground, underground or semi-underground
4. Independent steel structure or building-integrated; functional & aesthetic
5. Single tower = 1 control zone, 20-50 parking spaces
6. Each control zone: PLC intelligent control + face recognition



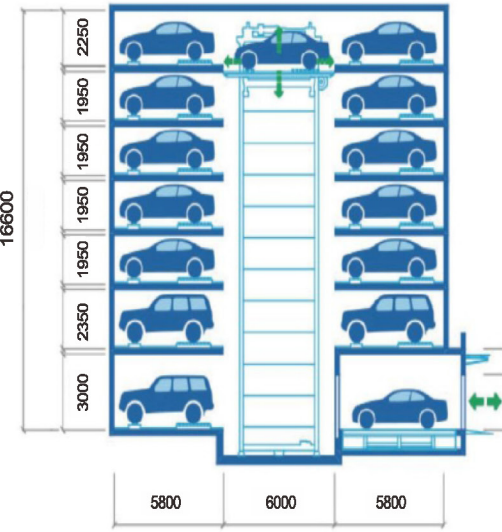
AISLE STACKING TYPE PARKING SYSTEM - PXD



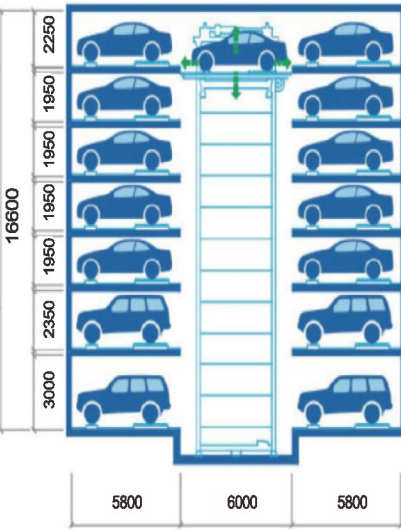
Entry & Exit Level Plan



Parking Level Plan



Section A



Section B

Product Features

- 1. Fully automatic, intelligent parking equipment; robot handling; fast parking/retrieval speed
- 2. Each system has a stacker (horizontal movement on rails) with a lifting platform for vertical movement
- 3. Wide site applicability; suits 2-7 floor above/below-ground garages
- 4. Higher cost-performance than planar mobile garages



Model Name	Aisle Stacking Type Parking System
Equipment Layers	2-7 Floors
Vehicle Capacity	Per Customer Requirements
Vehicle Specifications(L×W×H)	5300x1900x1550/2000
Vehicle Weight	2000kg/2350kg
Average Vehicle Access Time	90 Seconds
Floor Area of Single Set of Garage	Width: approx.19m, determined by aisle length

Handling Method	Comb Teeth Handler/Mechanical Arm Handler
Lifting Motor(Kw)	7.5-15
Traversing Motor(Kw)	5.5
Lifting Speed(m/min)	30-60
Traversing Speed(m/min)	50-60
Operation Method	PLC Computer Intelligent Control, Face Recognition
Power Supply	Three-Phase Five-Wire System, AC380V 50Hz

