

VEHICLE  
PARKING  
LIFTS &  
SYSTEMS



# CATALOG

Mutrade Industrial Corp. introduced its mechanical car parking equipment since 2009, and is focusing on developing, designing, manufacturing and installing various car parking solutions to increase more parking spaces in limited garages all over the world. By supplying suitable solutions, reliable products and professional services, Mutrade is supporting customers in over 90 countries, servicing for local government offices, automobiles dealerships, developers, hospitals, and private residential, etc. Being the famous manufacturer of mechanical car parking equipment in China, Mutrade is committed to continuously supply innovative and excellent products to become the leader in mechanical car parking solution providers.

Qingdao Hydro Park Machinery Co., Ltd. is the subsidiary company and production center built by Mutrade to

## Professional mechanical parking solution provider

supply stable and reliable mechanical parking equipment. Advanced technologies, higher quality materials, more precise manufacture processing, stricter quality control is adopted to keep all Mutrade products updated for better user experience.

For all the people who work in the mechanical car parking business, Mutrade, as a reliable and professional partner in China, is the one company you can not miss!

### CERTIFICATE 04

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## Product Certificates



## Company Certificates



## Product Patents



## Russian Certificate

## Quality Assurance

## Trade Mark





# High End Mechanical Car Parking Lifts

# HYDRO PARK

Each Hydro-Park series product has been tested and updated by hundreds times in the past 10 years. Designs, materials, production procedures, finishing and packing has been adjusted to provide reliable parking lifts for our customers.

Hydro-Park series parking lifts allow users to easily optimize parking space by simple solution, fast installation, convenient operation and low cost maintenance.

The structures of all Hydro-Park series products are specially reinforced to stably carry various types of vehicles. Tested by a lot of load tests based on strict standards in different countries, there is no doubt that Hydro-Park series products could be always trusted to protect users and vehicles.

Besides, components are carefully selected and sourced to ensure product qualities and make sure Hydro-Park series products can work well in long term usage.





## Two Post Parking Lift

# Hydro-Park 1132

Hydro-Park 1132 is the strongest two post simple parking lift, offering 3200kg capacity to stack SUV, van, MPV, pickup, etc. 2 parking spaces are offered on one existing space, suitable for permanent parking, valet parking, car storage, or other places with attendant. Operation can be easily made by a key switch panel on control arm. The feature of post sharing allows more installations in limited space.

*Lifting capacity 3200kg*

*Car height on ground up to 2050mm.*

*Platform width up to 2500mm.*

*Directly driven by dual hydraulic cylinders*

*Synchronization chain keeps platform level under all conditions*

*Mechanical anti-falling locks enable multiple stopping heights.*

*Electric lock release provides easier operation.*

*24v control voltage avoids electric shock*

*Galvanized platform, high-heel friendly*

*Bolts & nuts passing 48hrs Salt Spray Test.*

*Akzo Nobel powder coating provides long lasting surficial protection*

### Heavy Duty Vehicles Friendly

3200kg rated capacity and larger platforms make parking easily for heavy duty vehicles

### Sharing Post

Advanced sharing post feature saves land space and cost

Hydro-Park 1132



Advanced sharing post feature save more land space and cost



Individual power pack and control system for each unit makes operation more convenient

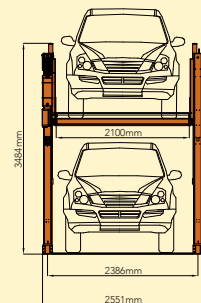
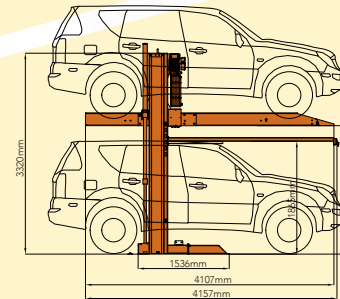


Key switch for each operation with emergency stop button



Advanced mechanical anti-falling lock device

Lifting capacity	3200kg
Lifting height	2100mm
Usable platform width	2200mm
Power unit	3Kw hydraulic pump
Available voltage of power supply	100V-480V, 1 or 3 Phase, 50/60Hz
Operation mode	Key switch
Operation voltage	24V
Safety lock	Dynamic anti-falling lock
Lock release	Electric auto release
Rising / descending speed	<40s
Finishing	Powder coating





## Two Post Parking Lift

### Hydro-Park 1127&1123

Hydro-Park 1127 & 1123 are the most popular parking stackers, quality proven by more than 20,000 users in past 10 years. They provide a simple and greatly cost-effective way to create 2 dependent parking spaces above each other, suitable for permanent parking, valet parking, car storage, or other places with attendant. Operation can be easily made by a key switch panel on control arm.

*Lifting capacity 2700kg or 2300kg.*

*Car heights on ground up to 2050mm.*

*Platform width up to 2500mm.*

*Lifting height adjustable by limit switch*

*Electric auto lock release enables easier operation.*

*24v control voltage avoids electric shock*

*Galvanized platform, high-heel friendly*

*Bolts & nuts passing 48hrs Salt Spray Test.*

*Driven by hydraulic cylinder + Korean lifting chain*

*Synchronization chain keeps platform level under all conditions*

*Akzo Nobel powder coating provides long lasting surficial protection*

*Proven high end quality with CE certificate, tested by TUV.*

#### Low wear & maintenance

The excellent designs, materials, production and components decrease maintenance work

#### 10+ safety features

Complying with European standard, various safety devices are adopted



Hydro-Park 1127&1123



It can fit for different ceiling height and car heights by adjusting the lifting height



Key switch for each operation with emergency stop button

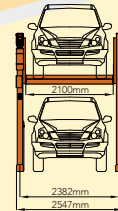
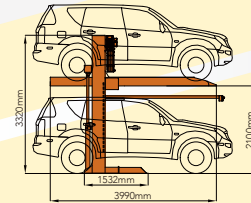


Advanced mechanical anti-falling lock device

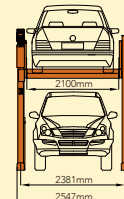
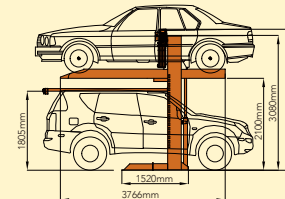


Advanced sharing post feature save more land space and cost

Hydro-Park 1127



Hydro-Park 1123



Model	Hydro-Park 1127	Hydro-Park 1123
Lifting capacity	2700kg / 6000lbs	2300kg / 5000lbs
Lifting height	2100mm / 83 inches	2100mm / 83 inches
Usable platform width	2100mm / 83 inches	2100mm / 83 inches
Power unit	2.2Kw hydraulic pump	2.2Kw hydraulic pump
Available voltage of power supply	100V-450V, 1 or 3 Phase, 50/60Hz	100V-450V, 1 or 3 Phase, 50/60Hz
Operation mode	Key switch	Key switch
Operation voltage	24V	24V
Safety lock	Dynamic anti-falling lock	Dynamic anti-falling lock
Lock release	Electric auto release	Electric auto release
Rising / descending speed	<35s	<35s
Finishing	Powder coating with Akzo Nobel powder	Powder coating with Akzo Nobel powder





## Four Post Parking Lift

# Hydro-Park 2236&2336

Specially developed for heavy-duty parking purpose based on traditional 4 post car lift, offering parking capacity 3600kg for heavy SUV, MPV, pickup, etc. Hydro-Park 2236 has rated lifting height of 1800mm, while Hydro-Park 2336 is 2100mm. Two parking spaces are offered above each other by each unit. They can also be used as car lift by removing the patented movable cover plates at platform center. User can operate by the panel mounted on front post.

- More reliable parking with 4 posts*
- 3600kg capacity to accommodate heavy duty vehicles*
- Lifting height options: 1800mm or 2100mm*
- Anti-slip diamond complete platform, rather than just 2 driveways*
- Lateral protection plates*
- Mechanical anti-falling locks allow multiple stopping heights*
- Low wear, proven hydraulic technology*
- Position of control panel is adjustable*
- Cable loose detection available*
- Proven high end quality with CE certificate*

### Heavy duty parking lift

It's suitable for most types of vehicles with maximum weight up to 3600kg

### Dual applications

This lift can be used for both car parking and repairing

Hydro-Park 2236&2336



Electrical automatic locking system



Fashion car stopper

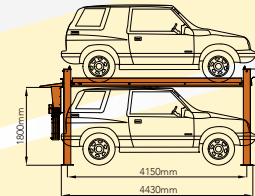


Unique mechanical steel rope detection mechanism

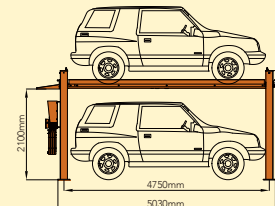


Wider platform space makes parking more convenient

Hydro-Park 2236



Hydro-Park 2336



Lifting capacity	3600kg
Lifting height	1800mm / 2100mm
Usable platform width	2100mm
Power unit	2.2Kw hydraulic pump
Available voltage of power supply	100V-450V, 1 or 3 Phase, 50/60Hz
Operation mode	Key switch
Operation voltage	24V
Safety lock	Dynamic anti-falling lock
Lock release	Electric auto release
Rising / descending speed	<40s
Finishing	Powder coating with Akzo Nobel powder



## Four Post Stacker Parking Lift

### Hydro-Park 2525

Hydro-Park 2525 is a MUTRADE newly developed 3-floor version of HP2236 and can be used as a 3-floor stacker parking like eco version of HP3130. The design of HP2525 is based on the HP2236, the equipment is used as valet parking or storage. The platforms move only vertically driven by a hidden strong hydraulic cylinder with wire ropes.

- Commercial grade
- Overlap platform design
- Ramps total height 150mm
- Ground floor unlimited, 2nd floor 2500kg and 3rd floor 2000kg capacity
- Entrance width 2492mm, 2nd floor 2100mm and 3rd floor 2200mm driven width
- Clear height 2100mm on each floor
- 4000mm/min (no-load) traveling speed
- 3.0kw hydraulic pump
- Powder coating finishing
- Dynamic anti-fall lock
- Dust/oil dripping cover
- Lock release failure detection
- Semi-auto lock release
- Emergency stop button
- Up & down key switch
- Self-standing & supporting structure
- TUV Rheinland Certified

#### Super cost-effective

Less than half cost of the HP3130

#### Low usage cost

Gravity lower down save energy

Hydro-Park 2525



Electrical automatic locking system



Fashion car stopper



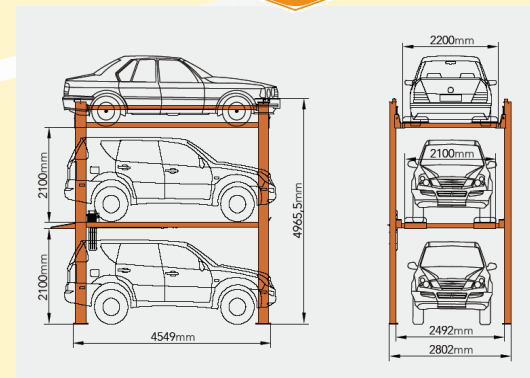
Wider platform space makes parking more convenient



Unique mechanical steel rope detection mechanism

Hydro-Park 2525

Lifting capacity	Ground floor unlimited, 2nd floor 2500kg and 3rd floor 2000kg
Usable height	Ground floor & second floor 2100mm
Usable platform width	2492mm
Power unit	3kw hydraulic pump
Available voltage of power supply	220-420V, single or 3 phase, 50/60Hz
Operation mode	Key switch
Operation voltage	24V
Safety lock	Dynamic
Lock release	Semi-auto release
Lifting speed	4000mm/min (no-load)
Finishing	Powder coating with Akzo Nobel powder







## Four Post Stacker Parking Lift

### Hydro-Park 3130&3230

One of the most compact and reliable solutions. Hydro-Park 3230 offers 4 car parking spaces on the surface of one, while Hydro-Park 3130 offers 3. Their robust structure allows 3000kg capacity on each platform. Their parking is dependent, low level car(s) has to be removed before getting the upper one, suitable for car storage, collection, valet parking or other scenarios with attendant. Manual unlock system greatly reduces malfunction rate and prolongs system service life. Outdoor installation is also allowed.

*3000kg capacity per platform*

*1 parking space = max 4 parking levels = cost saving*

*Allowed car height is 2000mm*

*Feature of post sharing enables multiple installations in limited space*

*Driven by hydraulic cylinder + steel rope*

*Multi-position anti-falling fail safe locking system*

*Manual unlock system*

*Powder coating provides long lasting surficial protection*

*One power pack can be shared by max 6 side-by-side units*

*Centralized commercial power pack optional*

*Seismic moment frame is optional as additional reinforcement*

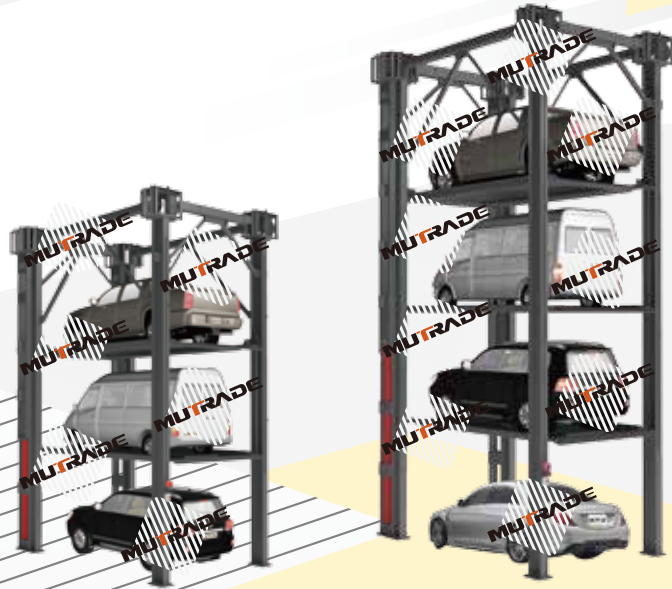
#### 3000kg capacity

Not only sedans, most common vehicles such as SUVs, pickup and mini vans can be parked

#### Triple/quad stacker

Each traditional parking bay can be utilized to build 3 or 4 levels high for maximum parking

Hydro-Park 3130&3230



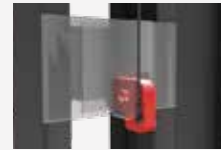
The intermediate post can be shared to save cost and land space with whole structure stronger



Rated capacity 3000kg per car could accommodate most types of vehicles



Key switch with manual lock release handle for easy operation

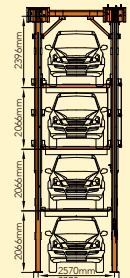
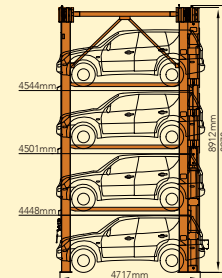
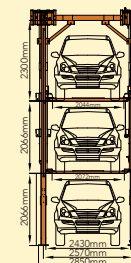
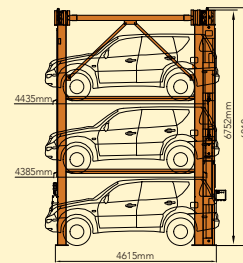


Mechanical anti-falling locks are adopted to protect platforms from falling

Hydro-Park 3130

Hydro-Park 3230

Available vehicle parking	3 cars / 4cars
Lifting speed	<90s / <150s
Rated capacity	3000kg / 6600lbs
Drive-through width	2050mm / 81 inches
Available vehicle height	2000mm / 79 inches
Operation mode	Key switch
Lock release	Manual with handle
Drive mode	Hydraulic cylinder + steel ropes
Pump power	5.5Kw / 7.5Kw
Finishing	Powder coating with Akzo Nobel powder
Control voltage	24V
Power supply	208 - 480V, 3 phase, 50/60Hz



World Top Class  
Mechanical  
Parking Solution

# Starke

In the past 4 years, Mutrade R&D team was devoted themselves to develop a series of car parking solutions that could satisfy customers about concerns of maximizing parking space and improving operational efficiency.

All the solutions in Starke series dramatically make full use of the land, with as much as possible usable space.

Safety and stability is essential and most important part in the design and production of all Starke series products. Various secure devices protect users and vehicles all the way.



## Two Post Parking Lift

# Starke 1127&1121



Starke 1127 and Starke 1121 are wholly new designed stackers with more ideal structure that offers 100mm wider platform but within smaller installation space. Each unit provides 2 dependent parking spaces, ground car has to be moved to use the upper platform. Suitable for permanent parking, valet parking, car storage, or other places with attendant. When used indoor, operation can be achieved by wall-mounted key switch panel. For outdoor usage, control post is also optional.

*Parking 2 cars in each unit*

*Lifting capacity 2100kg or 2700kg.*

*Platform width 2200mm – 2700mm*

*Car heights on ground up to 2050mm.*

*Direct drive by German structure cylinder.*

*Mechanical anti-falling locks enable multiple stopping heights.*

*Synchronization chain keep platform level under all conditions.*

*24v control circuit protects users from electric shock*

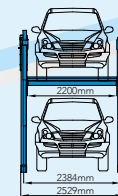
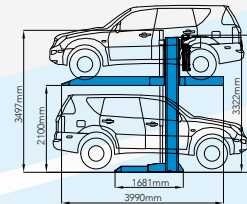
*Galvanized platform, high-heel friendly*

*Anti-rust bolts & nuts passing 48hrs Salt Spray Test.*

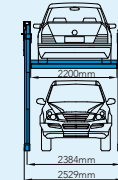
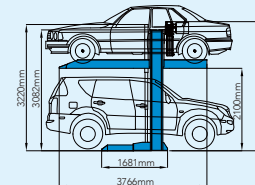
*Akzo Nobel powder coating provides long lasting surficial protection*

*Top class quality guarantee (German TUV / CE certified)*

Starke 1127



Starke 1121



Model	Starke 1127	Starke 1121
Lifting capacity	2700kg	2100kg
Lifting height	2100mm	2100mm
Usable platform width	2200mm	2200mm
Power pack	2.2Kw hydraulic pump	2.2Kw hydraulic pump
Available voltage of power supply	100V-480V, 1 or 3 Phase, 50/60Hz	100V-480V, 1 or 3 Phase, 50/60Hz
Operation mode	Key switch	Key switch
Operation voltage	24V	24V
Safety lock	Dynamic anti-falling lock	Dynamic anti-falling lock
Lock release	Electric auto release	Electric auto release
Rising / descending speed	<55s	<55s
Finishing	Powder coating with Akzo Nobel powder	Powder coating with Akzo Nobel powder



## Pit Two Post Parking Lift

# Starke 2127&2121



Starke 2127 and Starke 2121 are newly developed parking lifts of pit installation, offering 2 parking spaces above each other, one in pit and another on ground. Their new structure allows 2300mm entrance width within total system width of 2550mm only. Both are independent parking, no cars need to drive out before using the other platform. Operation can be achieved by wall-mounted key switch panel.

### Independent parking

Capacity options are 2100kg and 2700kg

Platform width up to 2500mm

Vehicle height in low level selectable from 1500 to 1900mm.

Dual hydraulic cylinders driven

Synchronization chains keep platform level at all conditions

Mechanical anti-falling locks provides ultra-safety

Additional steel ropes offer secondary protection from falling

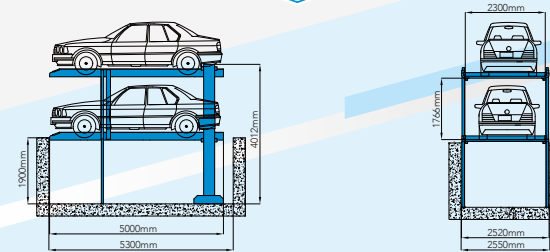
Galvanized platform plates, high heel friendly

Both models are to be installed in pit with posts fixed to walls.

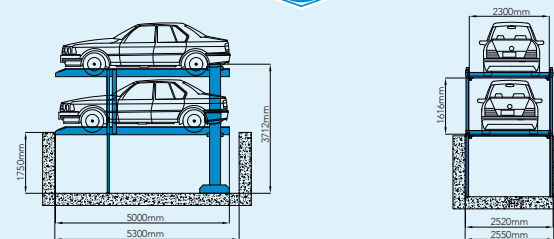
Akzo Nobel powder coating provides long lasting surficial protection

High level quality guarantee (German TUV / CE certified)

Starke 2127



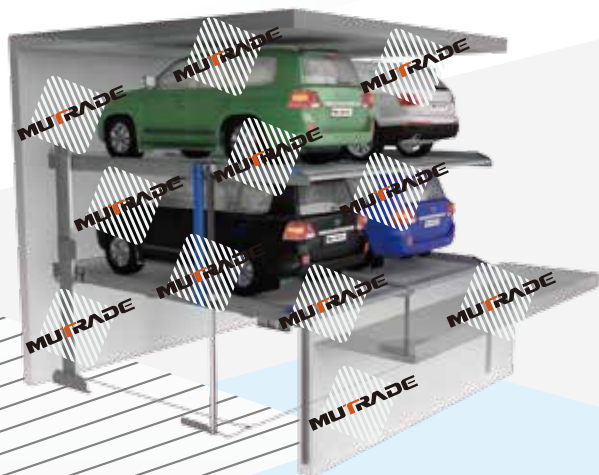
Starke 2121



Model	Starke 2127	Starke 2121
Vehicles parked per unit	2	2
Rated capacity	2700kg	2100kg
Available car length	5000mm	5000mm
Available car width	2050mm	2050mm
Available car height	1700mm	1550mm
Waving plate	Galvanized steel sheet	Galvanized steel sheet
Drive mode	Hydraulic cylinder + chains	Hydraulic cylinder + chains
Operation	Key switch	Key switch
Lifting speed	35s	30s
Descending speed	25s	25s
Power supply	200-480V, 3P, 50/60Hz	200-480V, 3P, 50/60Hz
Finishing	Powder coating with Akzo Nobel powder	Powder coating with Akzo Nobel powder

## Pit Two Post Parking Lift

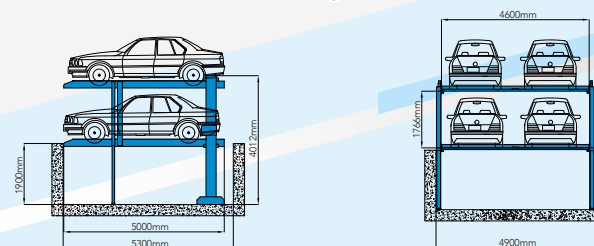
# Starke 2227&2221



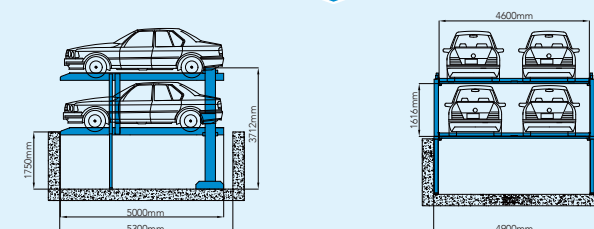
Starke 2227 and Starke 2221 are double system version of Starke 2127 & 2121, offering 4 parking spaces in each system. They provide the maximum flexibility for access by carrying 2 cars on each platform without any barriers/structures in middle. They are independent parking lifts, no cars need to drive out before using the other parking space, suitable for both commercial and residential parking purposes. Operation can be achieved by wall-mounted key switch panel.

- Capacity options are 2100kg and 2700kg for each space
- Platform width up to 5000mm
- Vehicle height in low level selectable from 1500 to 1900mm.
- Dual hydraulic cylinders driven
- Synchronization chains keep platform level at all conditions
- Mechanical anti-falling locks provide ultra-safety
- Additional steel ropes as secondary protection from falling
- Galvanized platform plates, high heel friendly
- Suitable for both commercial and residential parking purposes.
- Both models are to be installed in pit with posts fixed to walls.
- Akzo Nobel powder coating provides long lasting surficial protection
- High level quality guarantee (German TUV / CE certified)

Starke 2227



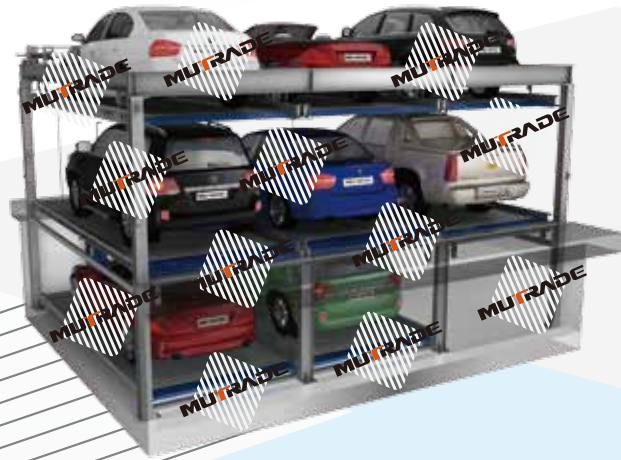
Starke 2221



Model	Starke 2227	Starke 2221
Vehicles parked per unit	4	4
Rated capacity	2700kg	2100kg
Available car length	5000mm	5000mm
Available car width	2050mm	2050mm
Available car height	1700mm	1550mm
Waving plate	Galvanized steel sheet	Galvanized steel sheet
Drive mode	Hydraulic cylinder + chains	Hydraulic cylinder + chains
Operation	Key switch	Key switch
Lifting speed	55s	55s
Descending speed	35s	35s
Power supply	200-480V, 3P, 50/60Hz	200-480V, 3P, 50/60Hz
Finishing	Powder coating with Akzo Nobel powder	Powder coating with Akzo Nobel powder

# Lift & Slide with Underground Car Stacker

## Starke 3127&3121

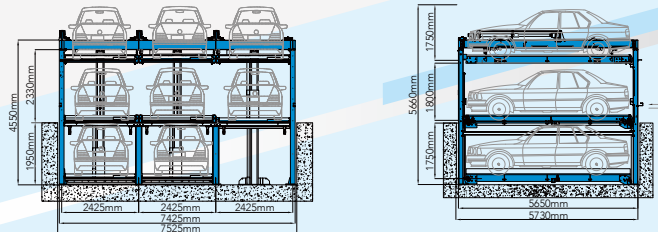


The system is semi-automatic puzzle parking type, one of the most space-saving system that parks three cars on top of each other. One level is in pit and another two on above, the middle level is for access. The user slides his IC card or inputs the space number on operation panel to shift spaces vertically or horizontally and then move his space to entry level automatically. Safety gate is optional to protect cars from theft or sabotage.

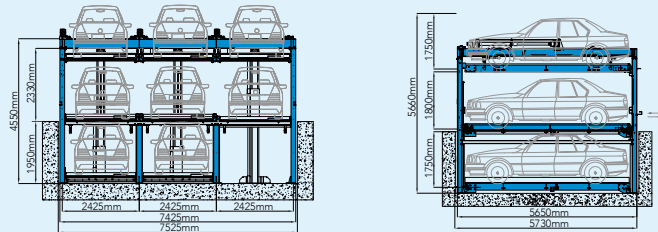
- Hydraulic driven
- Capacity of each platform is 2100kg or 2700kg
- Platform width up to 2500mm
- Recommended car spaces in each system < 32 vehicles.
- Programed automatic PLC control
- Operation by IC card or buttons
- Galvanized platform plates, high heel friendly
- Foundation pit is required
- Combinable with individual BDP-2 system
- High level quality guarantee (German TUV / CE certified)

Model	Starke 3127	Starke 3121
Levels	-1+2	-1+2
Available vehicle size	5000mm x 1950mm x 1700mm (LxWxH)	5000mm x 1950mm x 1550mm (LxWxH)
Drive mode	Hydraulic cylinder	Hydraulic cylinder
Lifting capacity	2700kg	2100kg
Hydraulic pump power	4Kw	4Kw
Lifting speed	8-12m/min	8-12m/min
Sliding speed	8m/min	8m/min
Control	Omron PLC system	Omron PLC system
Operation	Button & IC cards	Button & IC cards
Finishing	Powder coating with Akzo Nobel powder	Powder coating with Akzo Nobel powder

Starke 3127



Starke 3121



# Mechanical Automatic Car Parking Systems

BDP series is a kind of automatic parking system, developed by Mutrade. The parking space selected is moved to the desired position by means of an automatic control system, and the parking spaces can be shifted vertically or horizontally. Entrance level platforms move horizontally only and upper level platforms move vertically, meanwhile top level platforms move vertically only and lower level platform move horizontally, with always one column of platforms less except the top level platform. By swiping the card or input the code, the system automatically moves the platforms in the desired position. To collect a car parked on the upper level, the lower level platforms will first move to one side to provide an empty space into which the required platform is lowered.



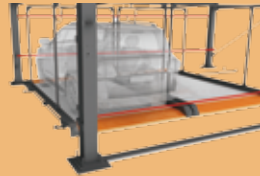
BDP series mobilize the existing space by using it the best possible way. They can be built from 2 levels to 15 levels, and up to 35 levels for ATP series. Our unique hydraulic drive system makes platforms lifted 2 or 3 times faster, that could extremely shorten the waiting time for parking and retrieve. At the meantime, more than 20 safety devices protects the whole system, specially the hydraulic and electrical system.



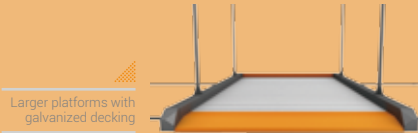
## Features



Maximum 2500kg capacity per platform, available for both sedans and SUVs



Sensors for cars accidental entrance, over-length, over-height detection



Larger platforms with galvanized decking



Mechanical anti-falling frames are adopted as safety protection



Optional safety gate can be supplied to secure users and the system

## Maximum usage of space

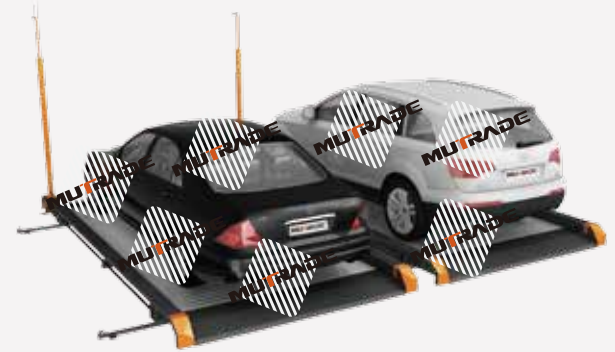
BDP series can be built from 2 to 15 levels to make full use of the limited land and provide as many as possible parking spaces

## High elevating speed

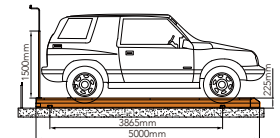
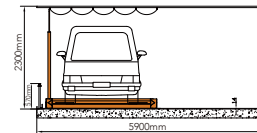
Unique hydraulic drive system makes the elevating speed 2 to 3 times as fast as other similar products

## Bi-Directional Parking System 1 level

# BDP-1



Levels	1
Available vehicle size	5000mm x 1850mm x 2050mm (LxWxH)
Drive mode	Motor
Lifting capacity	2000kg / 2500kg
Hydraulic pump power	0.2Kw
Sliding speed	8m/min
Control	Omron PLC system
Operation	Button & IC cards
Finishing	Powder coating



# BDP-2

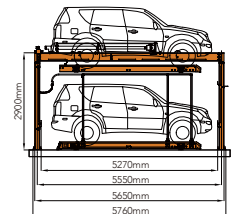
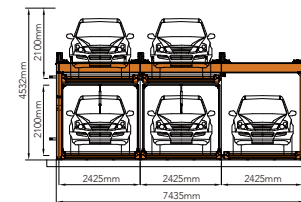


## Bi-Directional Parking System 2 levels

### BDP-2



Levels	2
Available vehicle size	5000mm x 1850mm x 1550/2050mm (LxWxH)
Drive mode	Hydraulic Cylinder + Wire rope
Lifting capacity	2000kg / 2500kg
Hydraulic pump power	4Kw
Lifting speed	8-12m/min
Sliding speed	8m/min
Control	Omron PLC system
Operation	Button & IC cards
Finishing	Powder coating





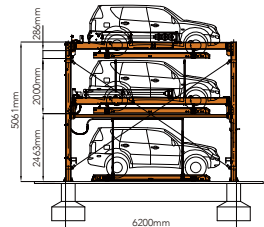
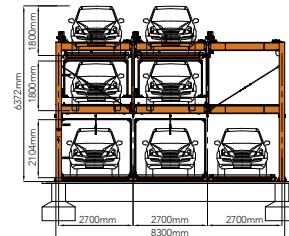
# BDP-3

## Bi-Directional Parking System 3 levels

BDP-3



Levels	3
Available vehicle size	5000mm x 1850mm x 1550/2050mm (LxWxH)
Drive mode	Hydraulic Cylinder + Wire rope
Lifting capacity	2000kg / 2500kg
Hydraulic pump power	4Kw
Lifting speed	8-12m/min
Sliding speed	8m/min
Control	Omron PLC system
Operation	Button & IC cards
Finishing	Powder coating





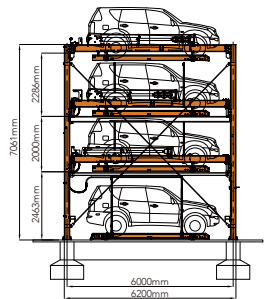
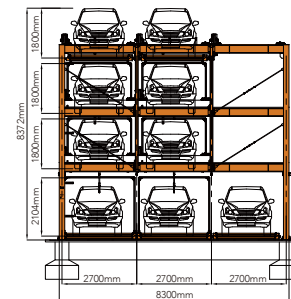
Bi-Directional Parking System 4 levels

BDP-4



Levels	4
Available vehicle size	5000mm x 1850mm x 1550/2050mm (LxWxH)
Drive mode	Hydraulic cylinder + Wire rope
Lifting capacity	2000kg / 2500kg
Hydraulic pump power	7.5Kw
Lifting speed	12-15m/min
Sliding speed	8m/min
Control	Omron PLC system
Operation	Button & IC cards
Finishing	Powder coating

BDP-4





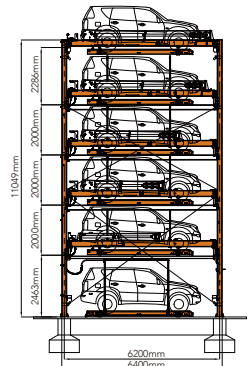
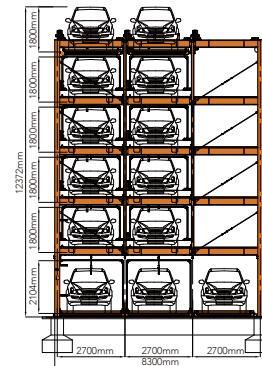
## Bi-Directional Parking System 6 levels

# BDP-6



Levels	6
Available vehicle size	5000mm x 1850mm x 1550/2050mm (LxWxH)
Drive mode	Hydraulic cylinder + Wire rope
Lifting capacity	2000kg / 2500kg
Hydraulic pump power	7.5kw
Lifting speed	15-18m/min
Sliding speed	8m/min
Control	Omron PLC system
Operation	Button & IC cards
Finishing	Powder coating

# BDP-6



# ARP Series



## Automatic Rotary Parking System

### ARP- 8 / ARP-20

Rotary parking system is one of the most space-saving systems that allows you to park up to 16 SUVs or 20 sedans in only 2 conventional parking spaces. The system is independent, no parking attendant is required. By inputting a space code or swiping a pre-assigned card, the system can recognize your vehicle automatically and find the faster path to deliver your vehicle down to ground either clockwise or counterclockwise.

Suitable for all types of vehicles

Least cover area than other automated parking systems

Up to 10 times space saving than traditional parking

Quick time of car retrieval

Easy to operate

Modular and simpler installation, averaging 5 days per system

Quiet operation, low noise to neighbors

Car protection against dents, weather elements, corrosive agents and vandalism

Reduced exhaust emissions driving up & down aisles and ramps looking for a space

Optimal ROI and short payback period

Possible relocation & reinstallation

Wide range of applications including public areas, office buildings, hotels, hospitals, shopping malls, and car showrooms, etc.

#### German motor

SEW brand motor, max 24kw, to ensure stable running and long durability

#### E-charging optional

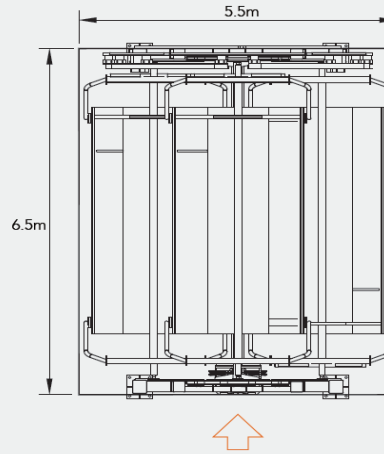
Intelligent and uninterruptible fast electric charging system is optional, and super easy to operate.



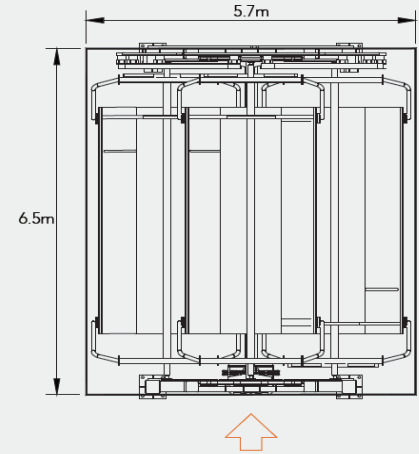
ARP



Sedan system



SUV system

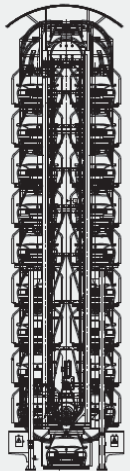
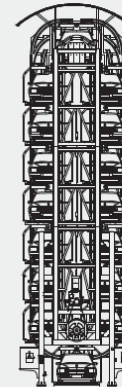
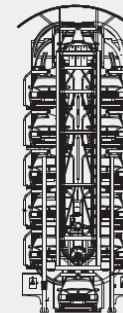
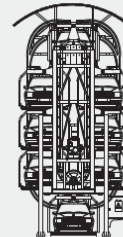
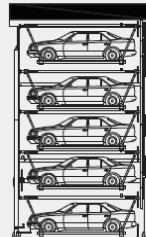


Sedan type systems

Model Number	ARP-8	ARP-10	ARP-12	ARP-16	ARP-20
Car spaces	8	10	12	16	20
Motor power (kw)	7.5	7.5	9.2	15	24
System height (mm)	9,920	11,760	13,600	17,300	20750
Max retrieve time (s)	100	120	140	160	140
Rated capacity (kg)	1800kg				
Car size (mm)	Sedans only; L*W*H=5300*2000*1550				
Cover area (mm)	W*D=5,500*6,500				
Power supply	AC Three phases; 50/60hz				
Operation	Button / IC Card (optional)				
Finishing	Powder coating				

SUV type systems

Model Number	ARP-8S	ARP-10S	ARP-12S	ARP-16S
Car spaces	8	10	12	16
Motor power (kw)	9.2	9.2	15	24
System height (mm)	12,100	14,400	16,700	21,300
Max retrieve time (s)	130	150	160	145
Rated capacity (kg)	2300kg			
Car size (mm)	SUV's allowed; L*W*H=5300*2100*2000			
Cover area (mm)	W*D=5,700*6,500			
Operation	Button / IC Card (optional)			
Power supply	AC Three phases; 50/60hz			
Finishing	Powder coating			



ARP-8

ARP-10

ARP-12

ARP-16

ARP-20

## ATP-15



## Automatic Tower Parking System

## ATP-15

ATP series are a type of automated parking system, that is made of a steel structure and can store 20 to 70 cars at multilevel parking racks by using high speed lifting system, to extremely maximize the usage of limited land in downtown and simplify the experience of car parking. By swiping IC card or inputting the space number on operation panel, as well as shared with information of parking management system, the desired platform will move to entrance level automatically and quickly.

*Fit for both sedans and SUVs*

*Capacity of each platform is up to 2500kg*

*Minimum 10 levels, and maximum 35 levels*

*Each tower occupies about 60m<sup>2</sup> footprint only*

*Can be widened to 5 cars cross to double the parking space*

*Both stand-alone type and built-in type available*

*Programed automatic PLC control*

*Operation by IC card or code*

*Optional embedded turntable makes convenient to drive in/out from the tower*

*Optional safety gate protects cars and the system from accidental entrance, theft or sabotage*

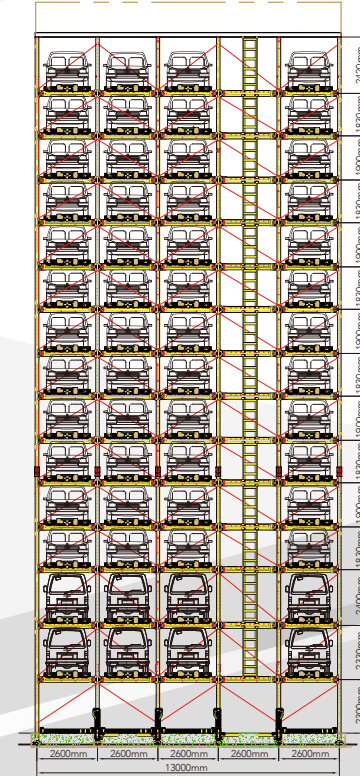
## 35 levels maximum

It can be built from 8 levels to 35 levels, determined by different project conditions

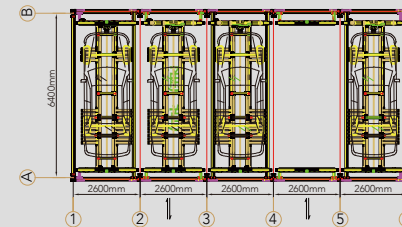
## Convenient usage

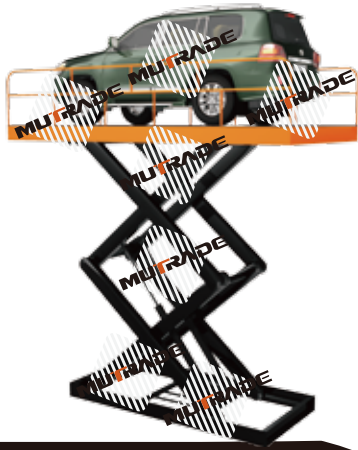
Automatic PLC control, IC card operation and automatic turning plate makes parking and retrieve simple and convenient





Levels of system	35 levels max
Car size(L×W×H)	≤5300mm×1900mm×1550mm
Car weight	2000kg / 2500kg
Mode of operation	Code / Card
Speed of operation	Lift 60-120m/min
	Slide 7.5m/min
	Turning 4rpm
Motor power	Lift 30kw
	Slide 0.2kw
	Turning 1.5kw





MUTRADE

## Professional Mechanical Car Parking Solution Provider

Mutrade series products are providing some creative solutions for the limited garages, to increase parking space, optimize space efficiency and process of car parking.



## Two Post Tilting Parking Lift

# TPTP-2

TPTP-2 has tilted platform that makes more parking spaces in tight area possible. It can stack 2 sedans above each other and is suitable for both commercial and residential buildings that have limited ceiling clearances and restricted vehicle heights. The car on ground has to be removed to use the upper platform, ideal for cases when the upper platform used for permanent parking and the ground space for short-time parking. Individual operation can be easily made by the key switch panel in front of system.

- Providing two spaces for sedans*
- Standard floor height >2900mm*
- Car height limit: 1600mm*
- Usable platform width: 2100mm*
- Dual hydraulic cylinder driven*
- 24v control voltage avoids electric shock*
- Galvanized platform, high-heel friendly*
- Dependent parking*
- Top class quality guarantee (CE certified)*

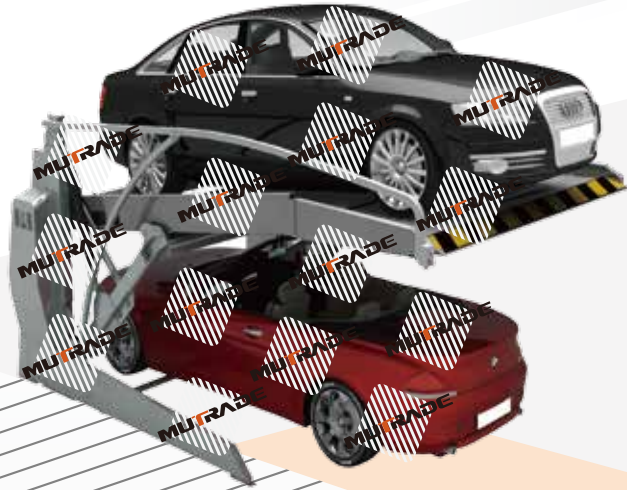
### Low ceiling height

This lift can be installed indoor with minimum 2900mm clear height

### Safety protection

Mechanical anti-falling locks can hold the platform at top position, and limit switch stop platform moving at targeted height

TPTP-2



Mechanical anti-falling locks hold the platform at top position to avoid any falling



Mechanical balance shaft ensures platform moves always in balance

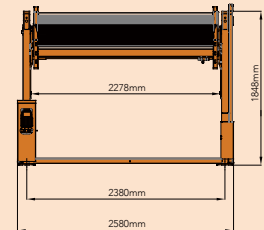
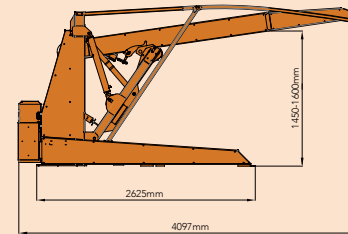


Reinforced back board keeps car parked at targeted position



Hydraulic cylinder direct drive makes movement fast and smooth

Vehicle size	5000mmX1850mmX1550mm
Vehicle weight	≤2000Kg
Lifting height	1600mm
Lock mode	Position lock
Drive mode	Hydraulic
Surface treatment	Powder coating
Control power	24V
Lifting time	25S
Lowering time	25S
Voltage	100V-480V, 1 or 3 Phase, 50/60Hz
Motor power	2.2kw







## Four Post Vertical Reciprocating Conveyor

### FP-VRC

FP-VRC is simplified car elevator of four post type, able to transport a vehicle or goods from one floor to another. It is hydraulic driven, piston travel can be customized according to actual floor distance. Ideally, FP-VRC requires an installation pit of 200mm deep, but it can also stand directly on ground when pit is not possible. Multiple safety devices make FP-VRC sufficiently safe to carry a vehicle, but NO passengers at all conditions. Operation panel can be available on each floor.

*For elevating vehicles only*

*Lifting capacity up to 6000kg*

*Platform size customizable according to shaft / hoistway size*

*Access is allowed from both front and rear side*

*Double heavy-duty chains to provide 7 times of rated capacity each*

*Synchronization chains keep platform level at all conditions*

*Mechanical locks available on each post on all stopping level(s)*

*An individual space is required to place control cabinet & pneumatic unit*

*A pair of ramps are available for places where pit is not an option*

*Remote control is optional*

#### Customizable dimensions

The platform lifting height and dimensions can be customized according to specific project

#### Multiple safety protections

Dual chain system, mechanical anti-falling locks and electrical safety devices protect users, cars and the lift all the way

FP-VRC



Dual chain system ensures safe operation all the time even if any one of chains system is broken

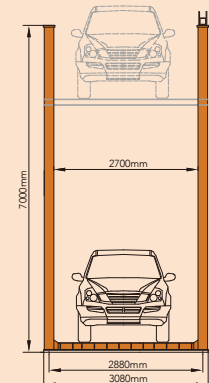
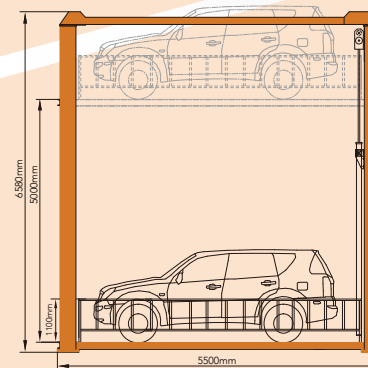


The platform is protected by mechanical anti-falling lock at top position and safety fences at two sides of platform



Hydraulic cylinder on connection beam makes operation more smooth and structure more stable

Lifting capacity	2,000-6,000kg
Lifting height	2,000-14800mm
Platform length	2000mm-7000mm
Platform width	2000mm-5000mm
Platform material	Diamond steel sheet (standard) / 4mm Aluminum steel sheet (optional)
No. of level	According to your requirement
Drive mode	Hydraulic cylinder + chains
Operation	Button switch (standard) / remote controller (optional)
Power pack	4 kw/5.5kw hydraulic power pump
Lifting speed	4m/min
Safety devices	Mechanical anti-falling lock
Finishing	Paint spray





## Scissor Vertical Reciprocating Conveyor

### S-VRC

S-VRC is simplified car elevator of scissor type, mostly used for conveying a vehicle from one floor to another and acting as an ideal alternative solution for ramp. A standard SVRC has single platform only, but it is optional to have the second on top to cover the shaft opening when system folds down. In other scenarios, SVRC can also be made as parking lift to provide 2 or 3 hidden spaces on the size of one only, and the top platform can be decorated in harmony with the surrounding environment.

*For elevating vehicle/goods only*

*Lifting capacity up to 6000kg*

*Max 3 platforms are available*

*Platform size customizable according to shaft / hoistway size*

*Complete flat platform enables vehicle to traverse from all directions*

*Foundation pit is required on all conditions.*

*Hydraulic pump station can be in pit or individually outside*

*Remote control is optional*

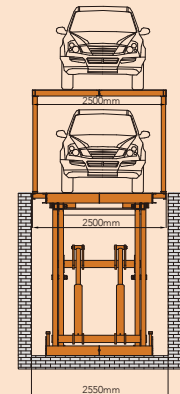
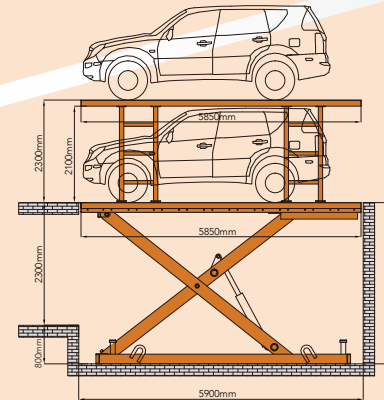
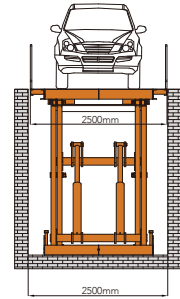
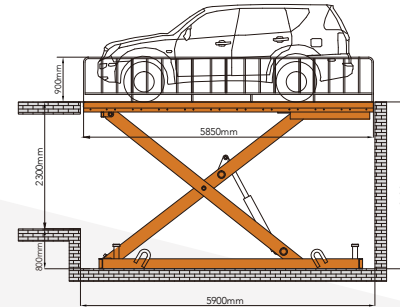
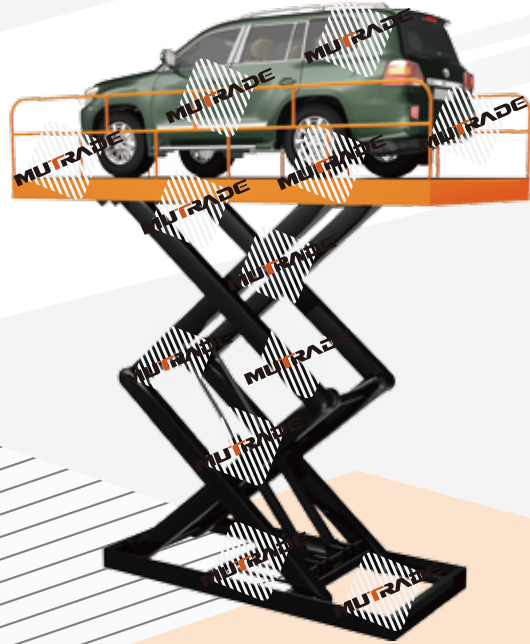
#### Customizable dimensions

The platform lifting height and dimensions can be customized according to specific project

#### Double Platforms

Double platforms in a unit can be made as multilevel parking lift to conveniently parking or retrieve cars at different levels

S-VRC



Model	S-VRC	S-VRC-2
Lifting capacity	2,000-10,000kg	3,000kg per platform
Lifting height	2,000-13,000mm	2
Platform length	2000mm-6000mm	2000mm-6000mm
Platform width	2000mm-5000mm	2000mm-3000mm
Platform material	Diamond steel sheet (standard) / 4mm Aluminum steel sheet (optional)	
Drive mode	Hydraulic cylinder	
Operation	Button switch (standard) / remote controller (optional)	
Power pack	5.5 kw hydraulic power pump	
Lifting speed	4m/min	
Safety devices	Mechanical anti-falling lock	
Finishing	Powder coating with Akzo Nobel powder	





## Pit Four Post Parking Lift

# PFPP-2/3

PFPP-2 offers one hidden parking space in ground and another visible on surface. Thanks to the even upper platform, the system is flush with ground when folded down and vehicle traversable on top. Multiple systems can be built in side-to-side or back-to-back arrangements, controlled by one set of centralized automatic PLC system. The upper platform can be made in harmony with your landscape, suitable for courtyards, gardens and access roads, etc.

### *Independent parking*

*Lifting capacity options: 2000kg or 2500kg*

*Car heights 1550mm – 2050mm*

*Hide one parking space into ground*

*Flat platform traversable by vehicles*

*Galvanized platform plates, high heel friendly*

*Automatic PLC control*

*Both hydraulic and motorized types are available*

*Feature of post sharing enables multiple installations in limited space*

*Controllable by IC card or buttons*

### Independent parking

Platforms move vertically to allow cars drive onto each platform independently

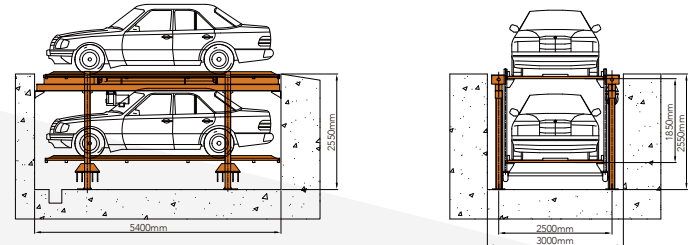
### Concealed parking

Cars parked on lower platforms can be protected from thief or sabotage. The empty top platform can be used as driveway

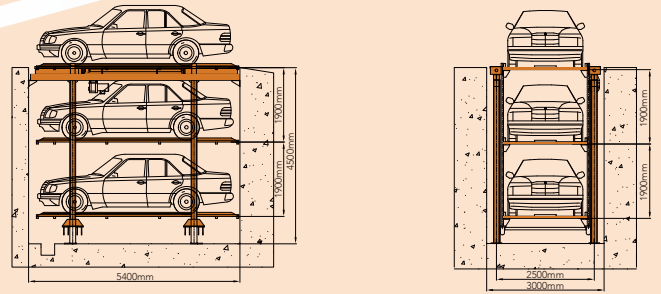
PFPP-2/3



PFPP-2



PFPP-3



Parking vehicle	2 / 3
Motor power	2.2Kw / 3.7Kw
Lifting capacity	2000kg per platform
Usable vehicle size (mm, LxWxH)	5000x1850x1550
Finishing	Powder coating
Lock release	Auto
Operation	Button / IC card / Manual
Power supply	100V-480V, 1 or 3 Phase, 50/60Hz

Car Turn Table

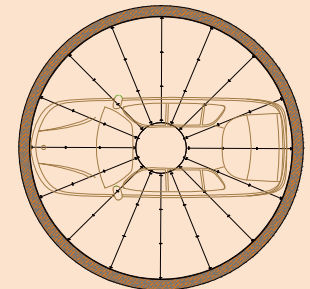
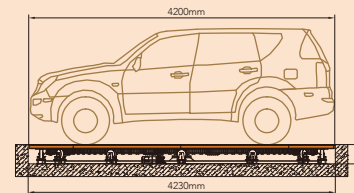
CTT



Mutrade turntables are designed to suit various application scenarios, ranging from residential and commercial purposes to bespoke requirements. It not only provides possibility to drive in and out of garage or driveway freely in a forward direction when maneuver is restricted by limited parking space, but is also suitable for car display by auto dealerships, for auto photography by photo studios, and even for industrial uses with diameter of 30mts or more.

- 360-degree rotation, forward/backward
- Loading capacity up to 10.0 tons
- Platform size upon request
- Speed adjustable from 0-2rpm
- Both surface mount and flush mount are possible
- A variety of surface options
- Simplified structural design makes self-assembly possible by owner
- Remote control included for free

Drive mode	Electric motor
Diameter	1.2-35m *can be customized according to customers' requirements
Loading capacity	1-20ton *can be customized according to customers' requirements
Motor power	0.75kw *can be customized according to customers' requirements
Voltage	100V-480V, 1 or 3 Phase, 50/60Hz
Turning speed	0.2-2rpm
Turning angle	360° any direction
Min. height	180/320mm
Finishing	Paint spray
Coverage of platform	Diamond plate / Aluminium alloy plate / Stainless steel plate / Acrylic plate
	*can be customized according to customers' requirements
Operation	Button / remote control





# Project Reference



**90** *Installed in more than countries all over the world*



Customers supporting worldwide by Mutrade





M E C H A N I C A L   G A R A G E

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