

**EV PROTEC**  
G18, Phase3,  
Dubai Industrial City, **Dubai, UAE**  
T. +971 44209669 | +971 551393968  
Email. info@nizine.net



# DATASHEET

## ECOP - 3

**G PLUS 2 SMART CAR PARKING**



**MODEL: GP2-ECOP3-3D**



**APPLICATION** Garage | Commercial Parking | Indoor Parking | Outdoor Parking

## **PRODUCT INFORMATION**

**EV PROTEC G PLUS SMART CAR PARK** can receive 2 SUVs on the ground & 2nd floor, and another sedan on 3rd floor. HP2625 receives 3 sedans. The top platform will sit on the lower platform on the ground floor, after park the first car on the top platform, lift up the top platform with the car all the way to the top level, lock the top platform, lower down the lower platform to the ground and then park the 2nd car on the lower platform, lift the lower platform and park the 3rd car on the ground floor.

## **FEATURES**

- 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 (Optional)

- TUV Rheinland Certified

## **SAFETY**

5.1.1 Before installing the product, please read and learn the safety warning in detail.

5.1.2 Keep the working site clean and tidy.

5.1.3 Check the working environment of the product. Don't leave the products in the rain. Don't use the product in a damp environment. Keep good ventilation and enough light in the use area.

5.1.4 Only trained people can operate the parking equipment. The untrained staff should keep away from the working area. All the staff without training are forbidden to operate the lift.

5.1.5 Motor must be grounded to avoid electric shock.

5.1.6 Power off when installing, to secure the safety as there is high voltage on the power unit.

5.1.7 Be careful during work to avoid any accident. Attention: The dimensions may be different as per customer's special requirement. Please contact our sales people for exact dimensions. Rated lifting load: 3600 kg/7936 lb Rated maximum lifting height: 1800mm/70 inches Equipment net weight: 900 Kg/1984 lb

5.1.8 Operate the equipment in a normal way. Do not modify the equipment or use any part which is not from our company.

5.1.9 Prohibit dismantling any parts related to safety.

5.1.10 Safety locking devices should be well protected.

5.1.11 Please keep people, cars or animals away from the equipment in operation.

5.1.12 Keep enough space away from the equipment in case the vehicle on the equipment is in danger.

5.1.13 Warning: Keep any flammable thing away from the working area as there is electric spark when the switch works.

5.1.14 This mark means safety warning.

5.1.15 Keep the equipment clean and keep regular maintenance. Appropriate lubrication and maintenance is good for the reliability of the equipment.

5.1.16 Keep key switches and buttons clean and dry to avoid the oil and grease on the product.

5.1.17 Check the synchronous situation of the four corners and check if there is any loose part, if there is any abnormal situation, please stop the operation and fix the problem.

## PRODUCT INFORMATION

Model	Hydro-Park 2525	Hydro-Park 2625
Lifting capacity	Ground floor unlimited, 2nd floor 2500kg and 3rd floor 2000kg	Ground floor unlimited, 2nd floor 2500kg and 3rd floor 2000kg
Lifting height	Ground floor and 2nd floor 2100mm	Ground floor 1850mm, 2nd floor 1600mm
Usable platform width	2492mm	2492mm
Power pack	3Kw hydraulic pump	3Kw hydraulic pump
Available voltage of power supply	220V-420V, 1 or 3 Phase, 50/60Hz	220V-420V, 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	Semi-auto lock release	Semi-auto lock release
Lifting speed	4000mm/min (no load)	4000mm/min (no load)
Finishing	Powdering coating	Powder coating

## INSTALLATION

5.2.1 Check the foundation work again, then draw lines to plan the positions of posts.

5.2.2 Assemble the front and rear beam onto the posts and keep the cross beams at around 1 meter high, then erect the posts to exact places. Please mind the directions of the machine when you arrange the front and rear beam.

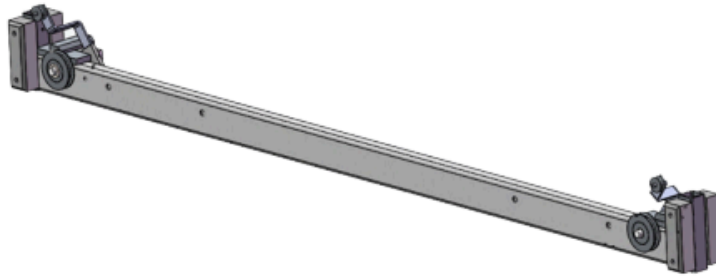


Chart 3 Cross beam view

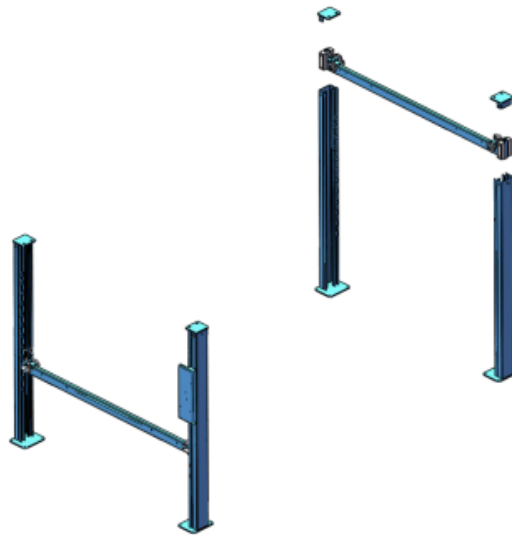


Chart 4 Assembling cross beams to posts (I)

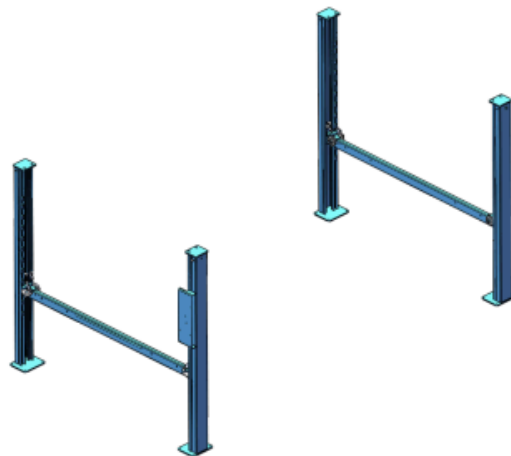


Chart 5 Assembling cross beams to posts (II)

5.2.3 Place the two driveway plates onto cross beams. Fix the driveway plates and cross beams.

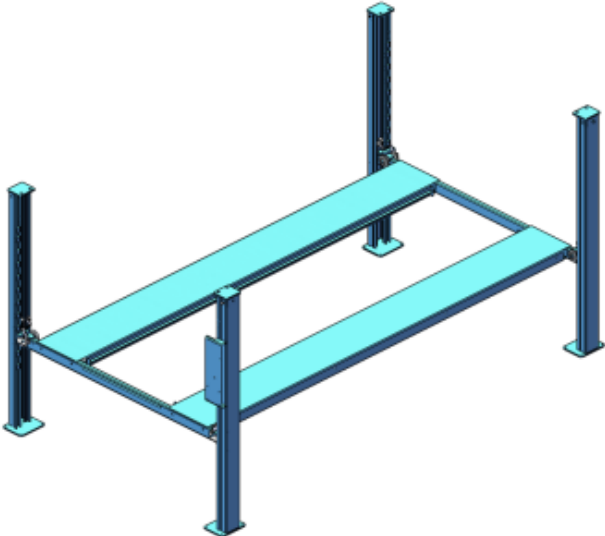


Chart 6 Laying driveway plates

5.2.4 Assemble the wheel stoppers and ramps onto cross beams.

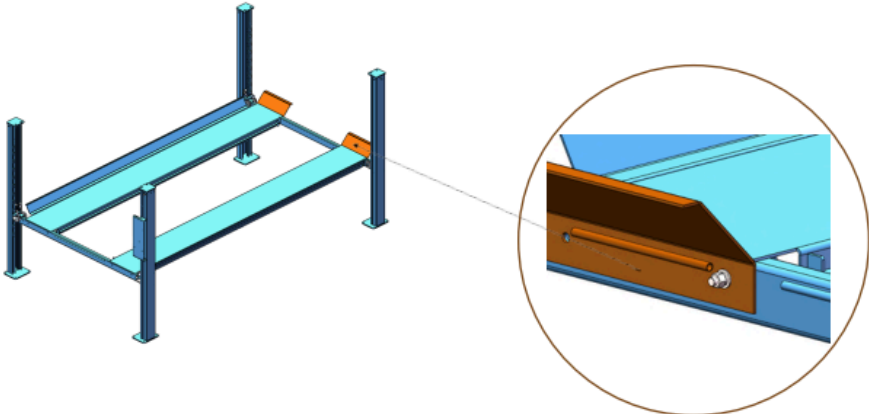


Chart 7 Assembling wheel stoppers

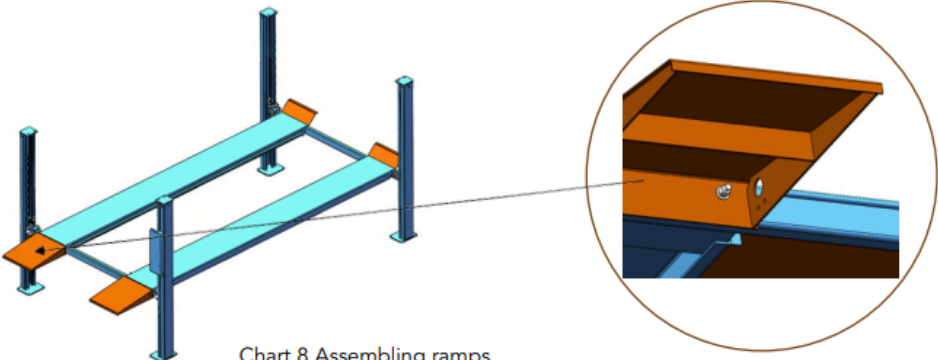


Chart 8 Assembling ramps

5.2.5 Tighten all the bolts to x the assembled parts.

5.2.6 Assemble the wire ropes as per below Wire Ropes Routing Diagram. Fix two screw nuts above the cover plate of each post, where the screw end of the wire rope goes through.

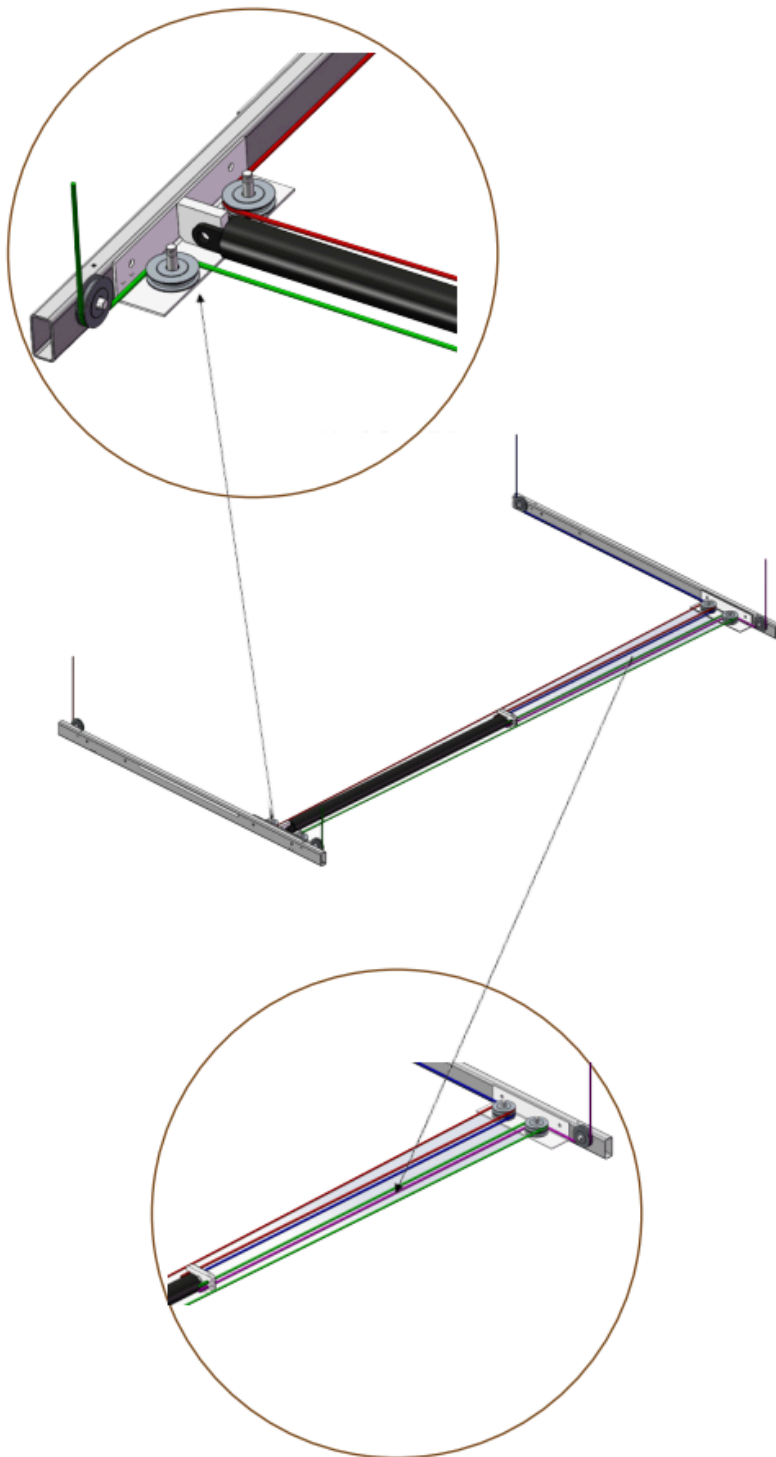


Chart 9 Wire Ropes Routing Diagram

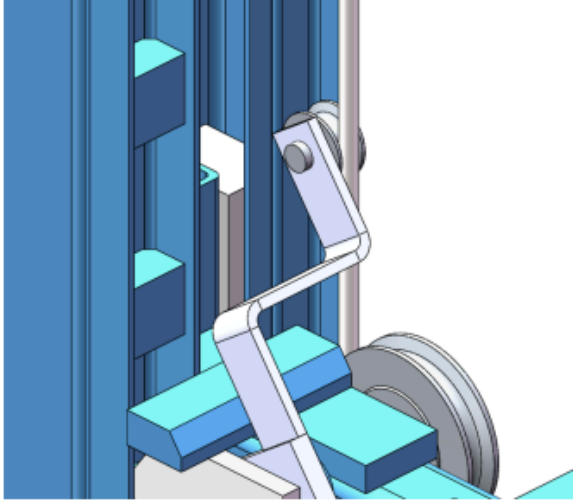


Chart 10 Wire ropes loosen protective device

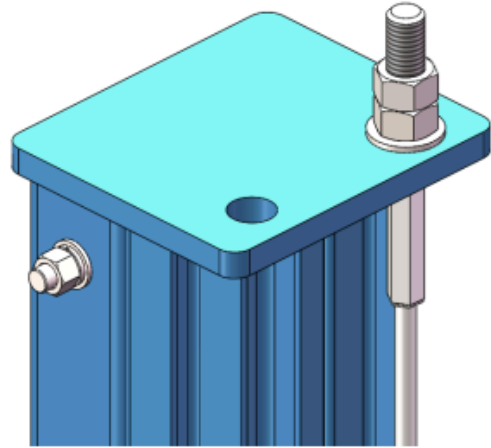


Chart 11 Fixing screw nuts on the top of post

5.2.7 Assemble the two lateral protective wings onto each side of driveway plates.

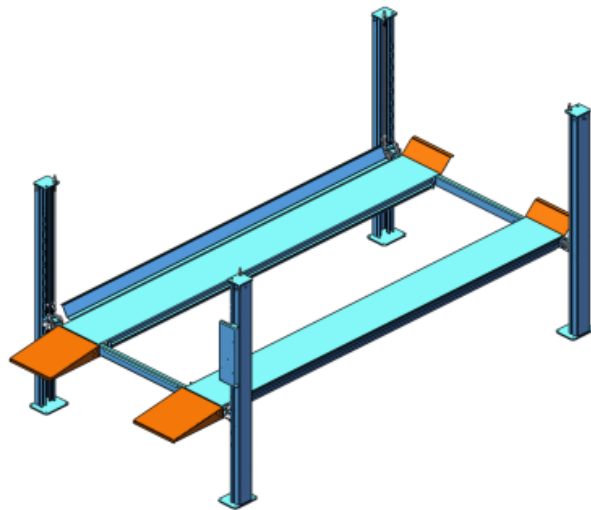


Chart 12 Assembling lateral protective plates



5.2.8 Fill 12 liters of hydraulic oil into the oil tank. #46 hydraulic oil is needed for normal temperature and #32 hydraulic oil is needed for low temperatures. Mount the power unit and control box onto the main post.

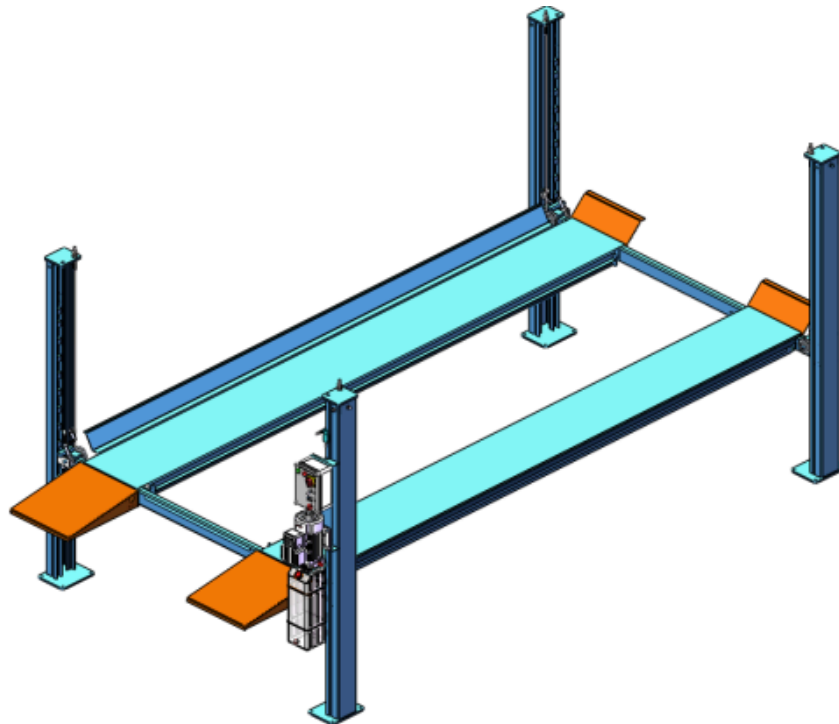


Chart 13 Mounting power pack and control box

5.2.9 Connect the oil hose from cylinder to power unit.

5.2.10 Mount the electromagnets and limit switch, then connect the wires to the control box according to the Wiring Diagram in the attachment.

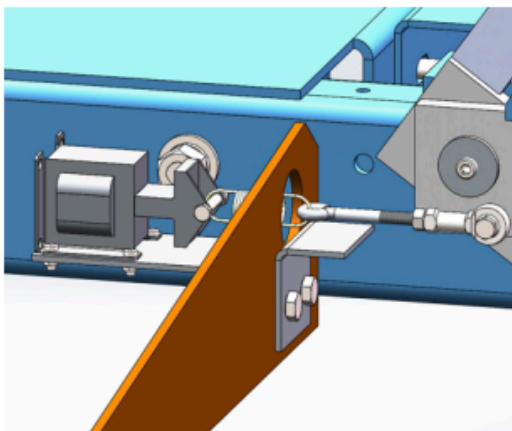


Chart 14 Mounting front electromagnets

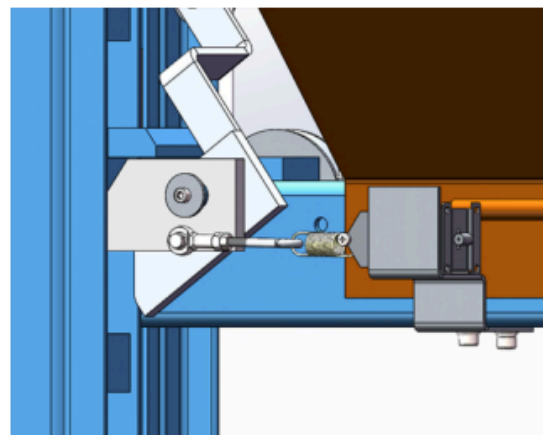


Chart 15 Mounting rear electromagnets

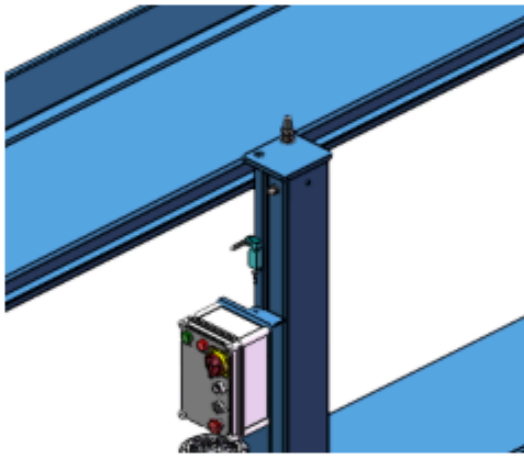


Chart 16 Mounting limit switch

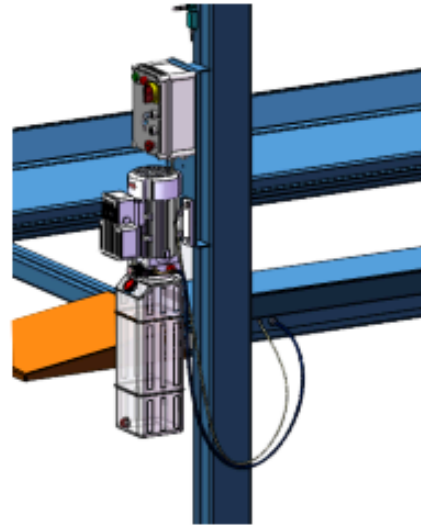


Chart 17 Routing of oil hose and electromagnets wires

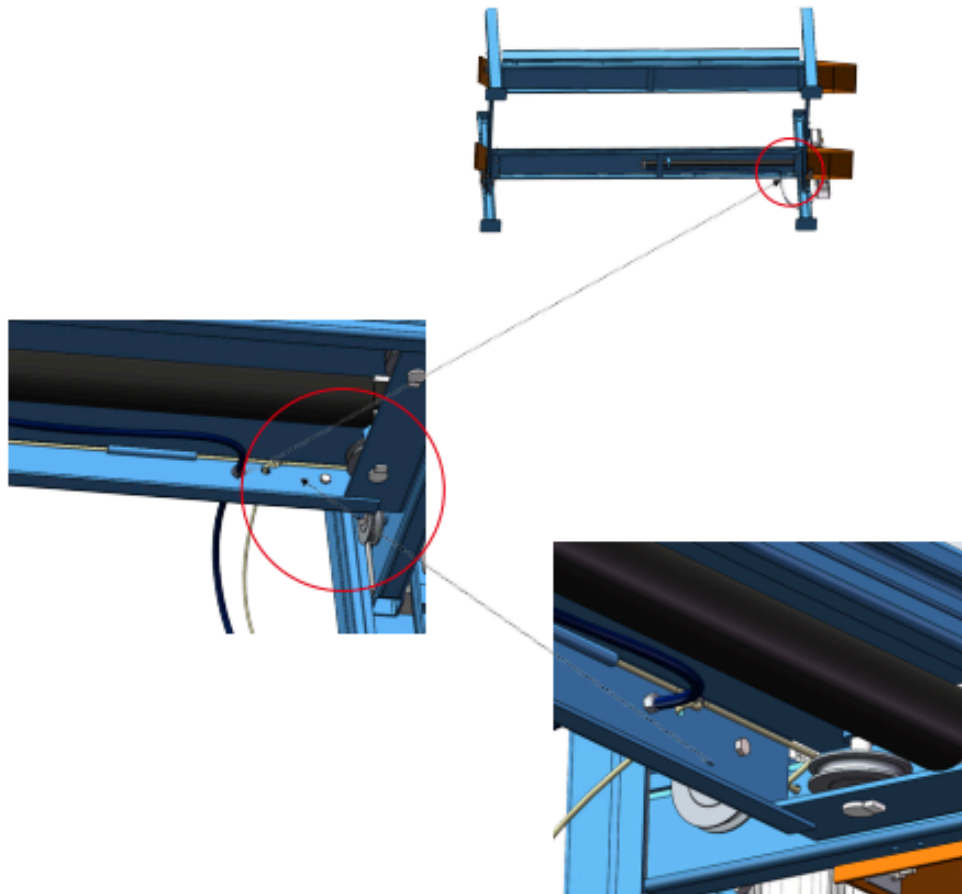


Chart 18 Routing of oil hose and electromagnets wires (II)

5.2.11 Adjust the screws of wire ropes at each post to make  $A=B$  and  $A1=B1$ . Operate the machine for several times to make sure all are in balance.

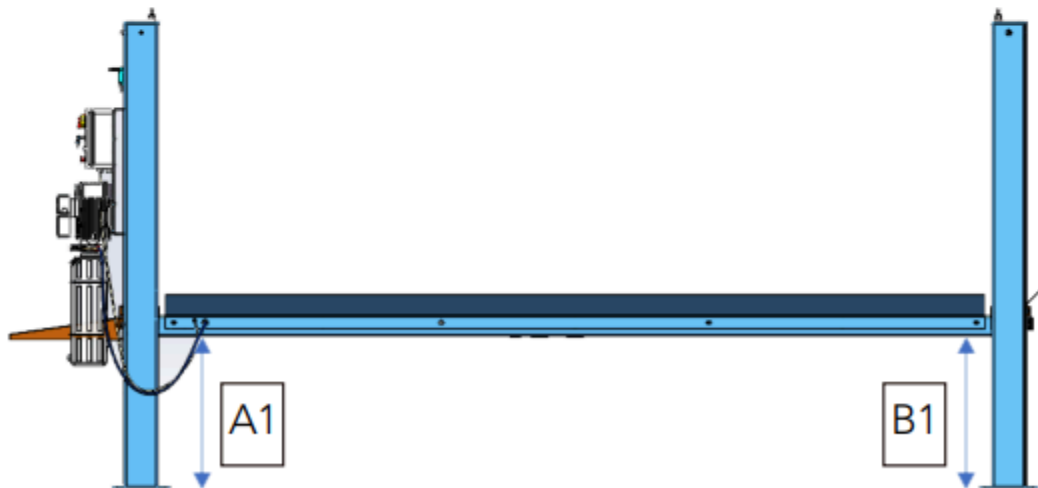
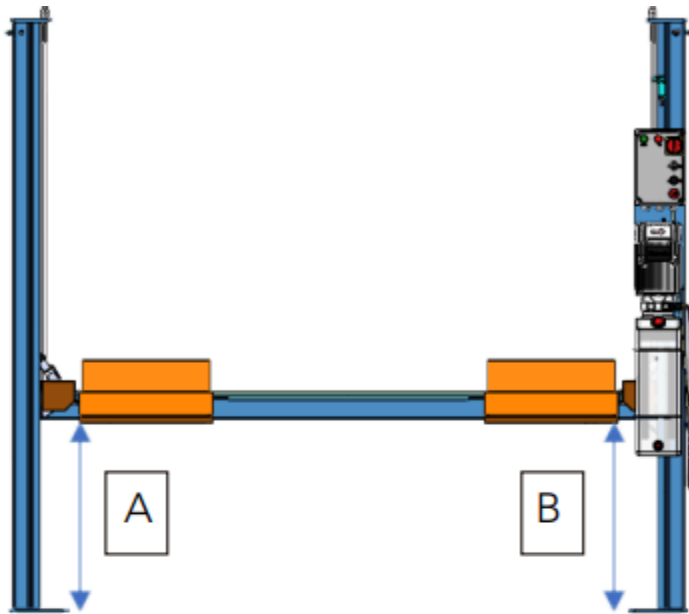


Chart 19 Section view

5.2.12 Fix all the posts onto foundation by anchor bolts.

5.2.13 Fix the covers for locking mechanisms and place the six cover plates onto the middle of the platform.

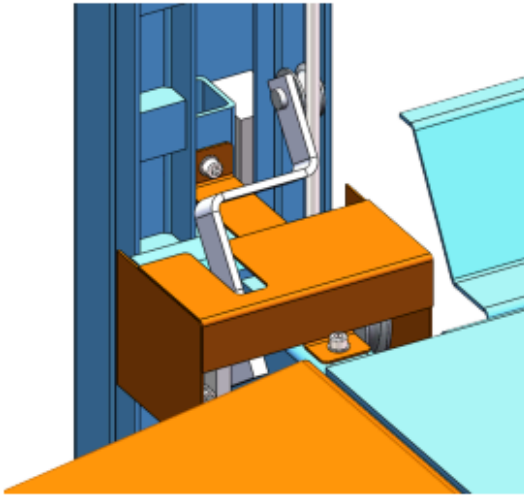


Chart 20 Mounting covers for locking mechanisms

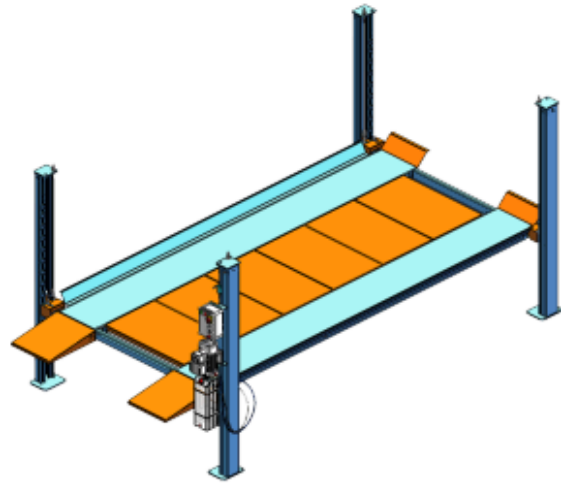


Chart 21 Placing middle cover plates

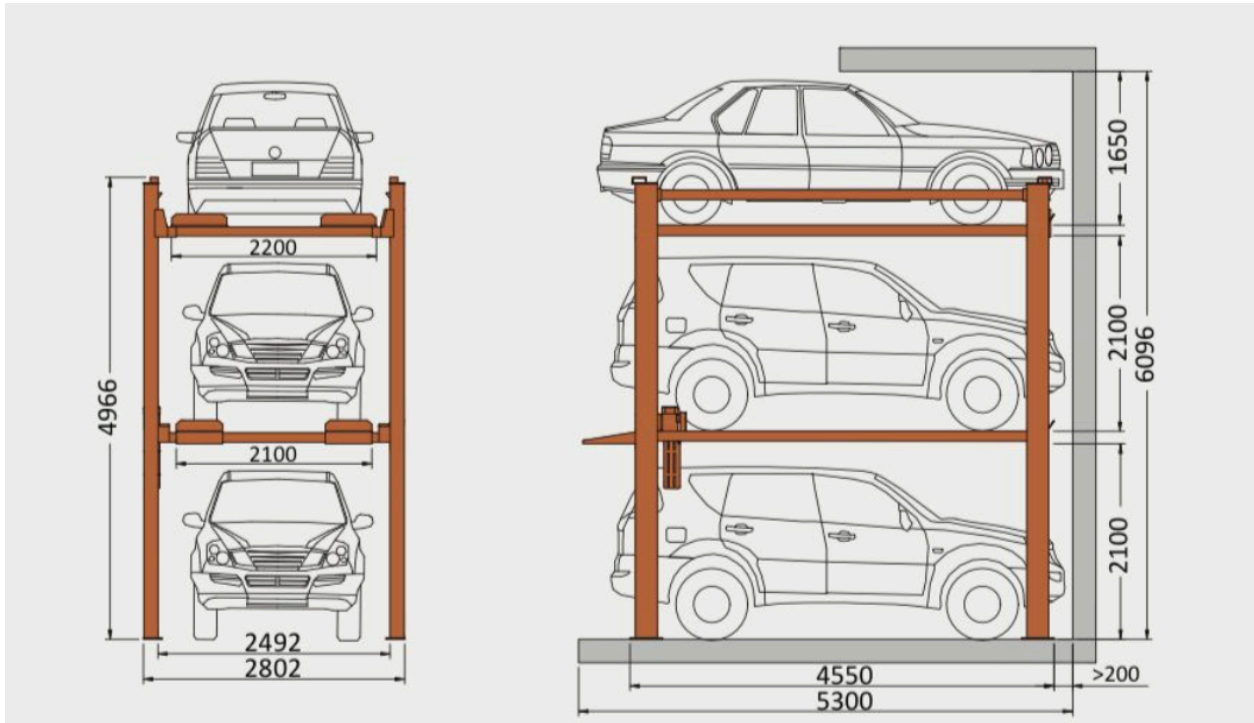
## **PARKING**

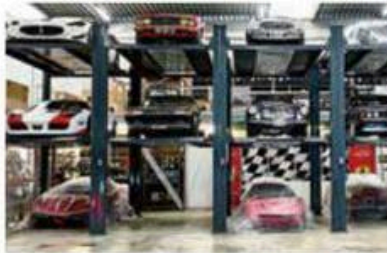
- 6.1.1 Drive the car onto the appropriate position of the platform.
- 6.1.2 Open the car door carefully to avoid any collision. Pay attention to the lateral protective wings in case of any falling down of a person.
- 6.1.3 Turning UP to lift the platform to the targeted position, and the platform will be locked automatically.
- 6.1.4 When the platform is at the top position, keep turning DOWN to make the platform descend until it reaches the ground.

## **MAINTENANCE**

- 6.3.1 Do lubrication on wire ropes once per month.
- 6.3.2 Change all the hydraulic oil three months after first operation; and change oil every nine months after first changing.
- 6.3.3 Frequently check the screw nuts of bolts, if any screw nut is loosening please fasten it ASAP.
- 6.3.4 Before operation, please do testing on top limit switch, if it cannot work please fix the problem, and if cannot fix it please replace it.
- 6.3.5 The seal in the hydraulic cylinder should be replaced every two years.
- 6.3.6 The nylon sliders should be replaced every two years.
- 6.4.7 The valve element in the solenoid valve and filter in the power unit should be cleaned every half year.

**PRODUCT PICTURES AND DIMENSION**





EASY  
PARKING  
EASY  
LIFE