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DATASHEET

CAR SHELF UK

MODEL: CRSHF-3TIER-2438



APPLICATION Garage | Commercial Parking | Indoor Parking | Outdoor Parking

PRODUCT INFORMATION

EV PROTEC CAR SHELF can receive 2 SUVs on the ground & 2nd level, and another sedan on 3rd level. 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

PRODUCT INFORMATION

DESCRIPTION	VALUE
Capacity	2500 KG SL /2000KG TL
Height Spacing	2100 MM + 2100 MM
Max Height	6096 MM
Width MM	2492 GL / 2100 SL /2200 TL
Net Weight	2000 KG
Voltage	380V 3P 50 Hz
Motor Power	3KW
Manufacture	Ev PROTEC
Brand	CAR SHELF UK
Modal Code	CRSHF-3TIER-2438

SAFETY

1. Before installing the product, please read and learn the safety warning in detail.
2. Keep the working site clean and tidy.
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.
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. Motor must be grounded to avoid electric shock.
6. Power off when installing, to secure the safety as there is high voltage on the power unit.
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: 2500 KG SL /2000KG TL Rated maximum lifting height: 6096 MM Equipment net weight: 2000 KG
8. Operate the equipment in a normal way. Do not modify the equipment or use any part which is not from our company.
9. Prohibit dismantling any parts related to safety.
10. Safety locking devices should be well protected.
11. Please keep people, cars or animals away from the equipment in operation.
12. Keep enough space away from the equipment in case the vehicle on the equipment is in danger.
13. Warning: Keep any flammable thing away from the working area as there is electric spark when the switch works.
14. This mark means safety warning.
15. Keep the equipment clean and keep regular maintenance. Appropriate lubrication and maintenance is good for the reliability of the equipment.
16. Keep key switches and buttons clean and dry to avoid the oil and grease on the product.

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.

INSTALLATION

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

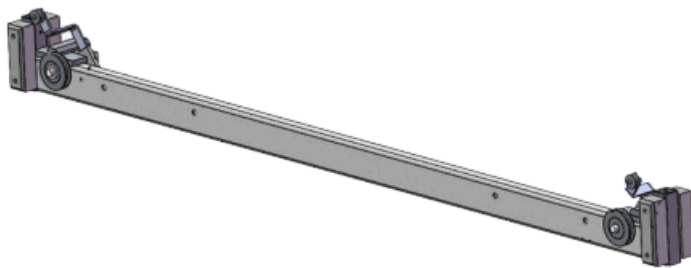


Chart 3 Cross beam view

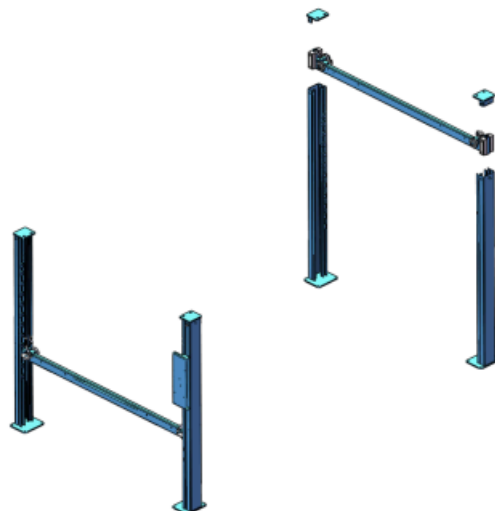


Chart 4 Assembling cross beams to posts (I)



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

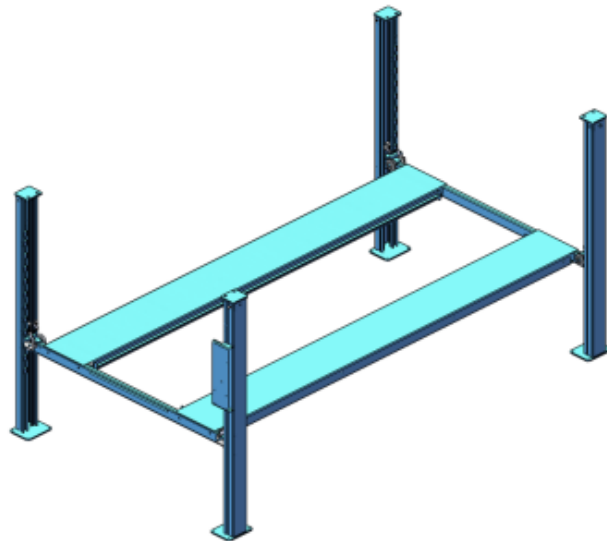
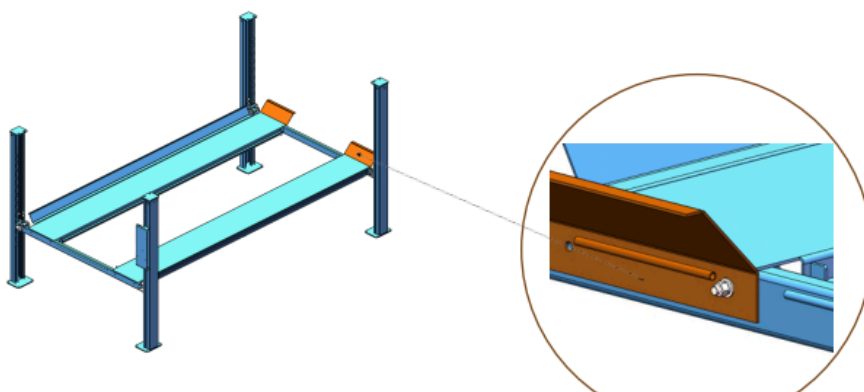


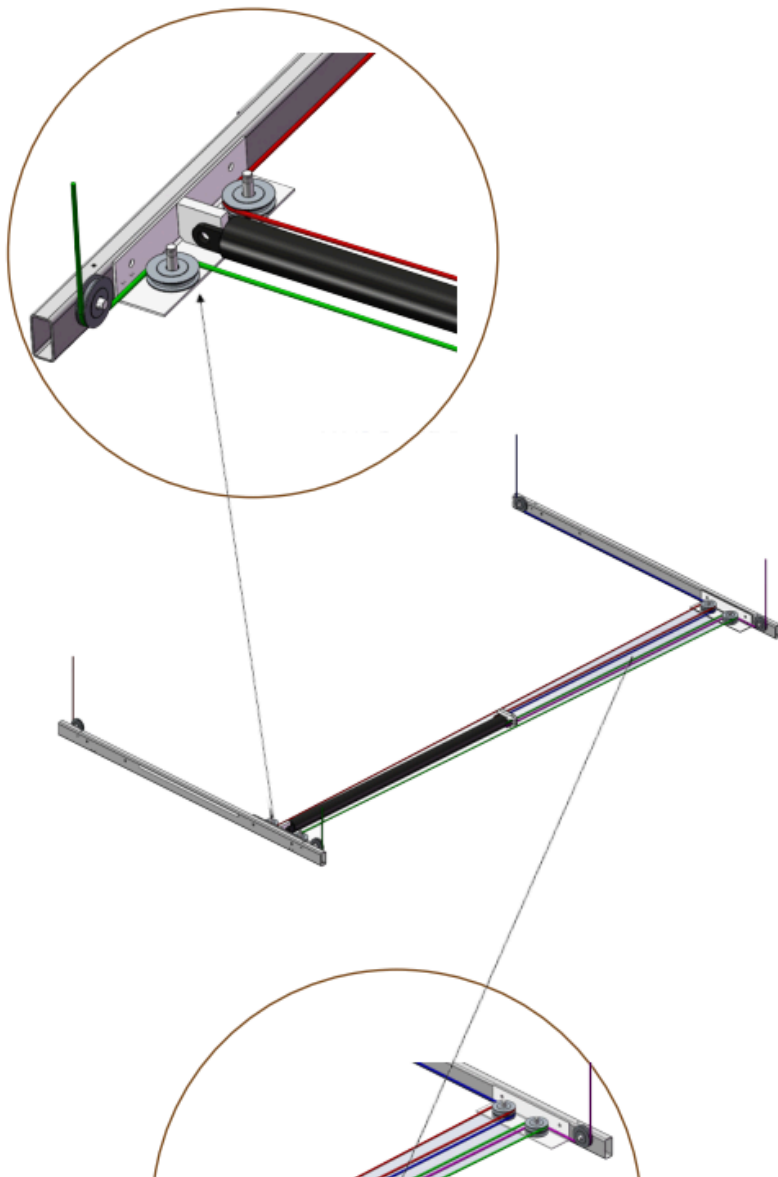
Chart 6 Laying driveway plates

Assemble the wheel stoppers and ramps onto cross beams.



Tighten all the bolts to x the assembled parts.

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.



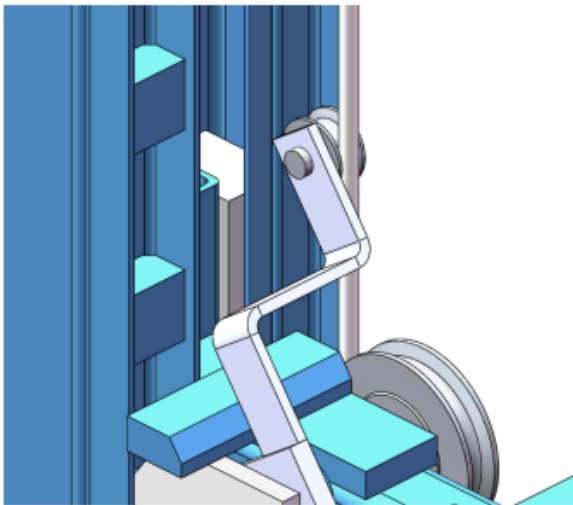


Chart 10 Wire ropes loosen protective device

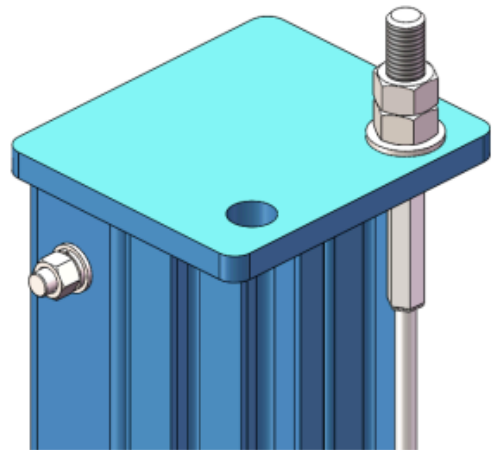
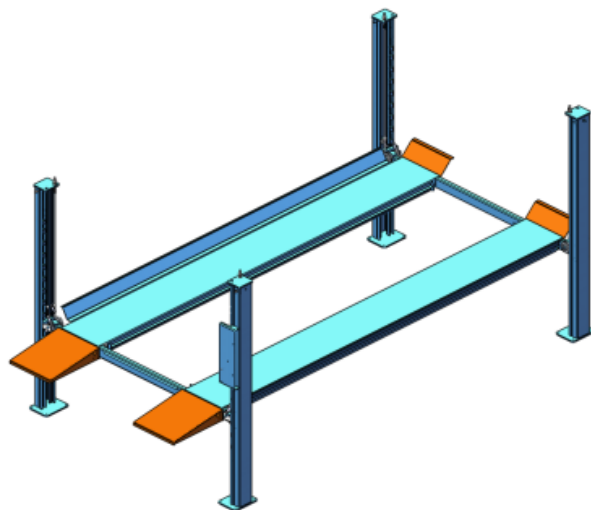


Chart 11 Fixing screw nuts on the top of post

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



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

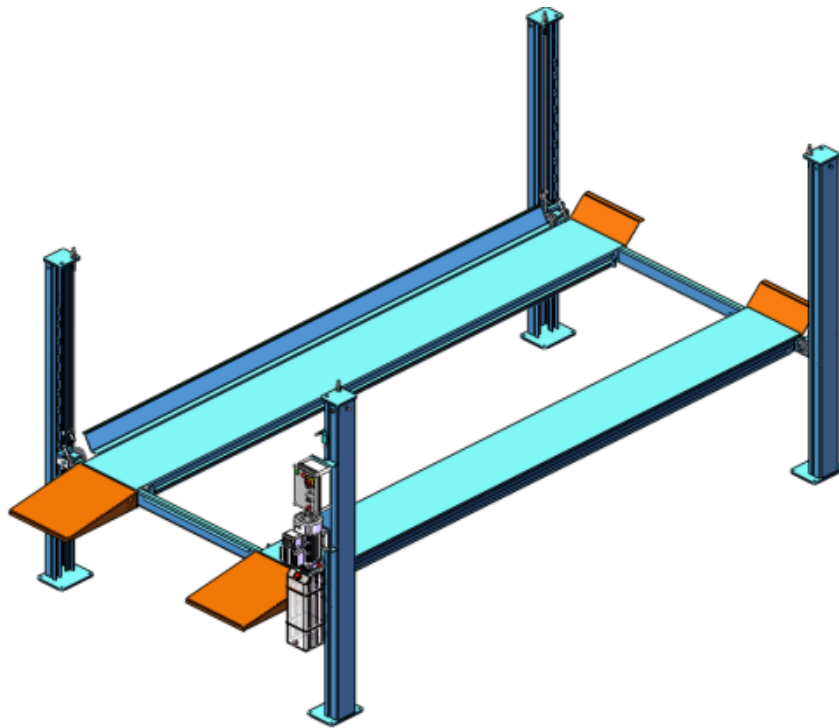
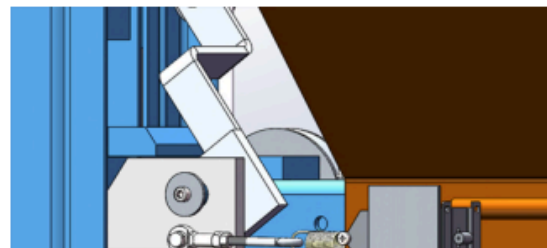
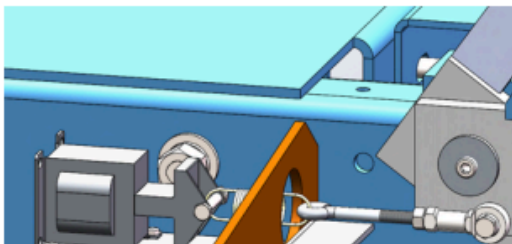


Chart 13 Mounting power pack and control box

Connect the oil hose from the cylinder to the power unit. Mount the electromagnets and limit switch, then connect the wires to the control box according to the Wiring Diagram in the attachment.



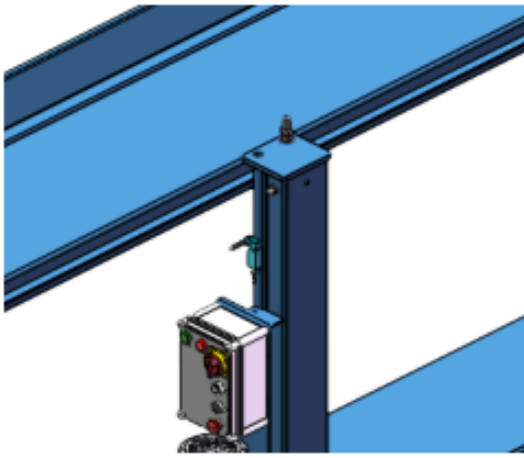


Chart 16 Mounting limit switch

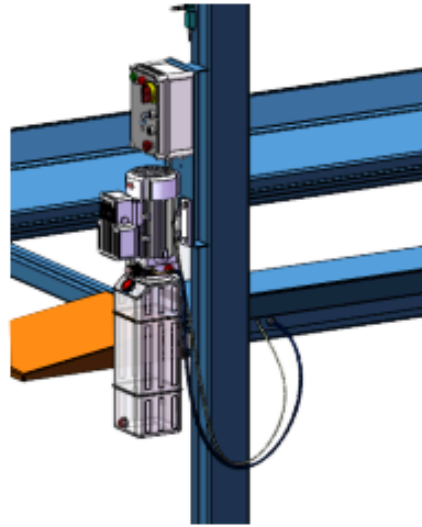


Chart 17 Routing of oil hose and electromagnets wires

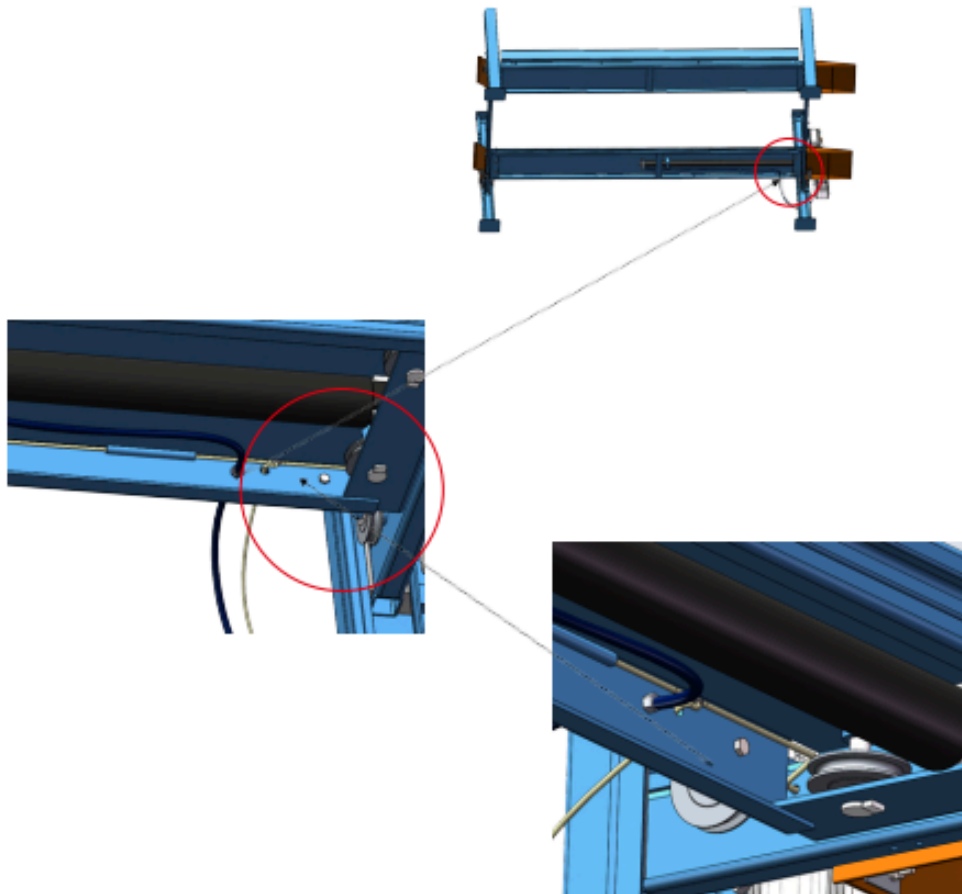


Chart 18 Routing of oil hose and electromagnets wires (II)

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.

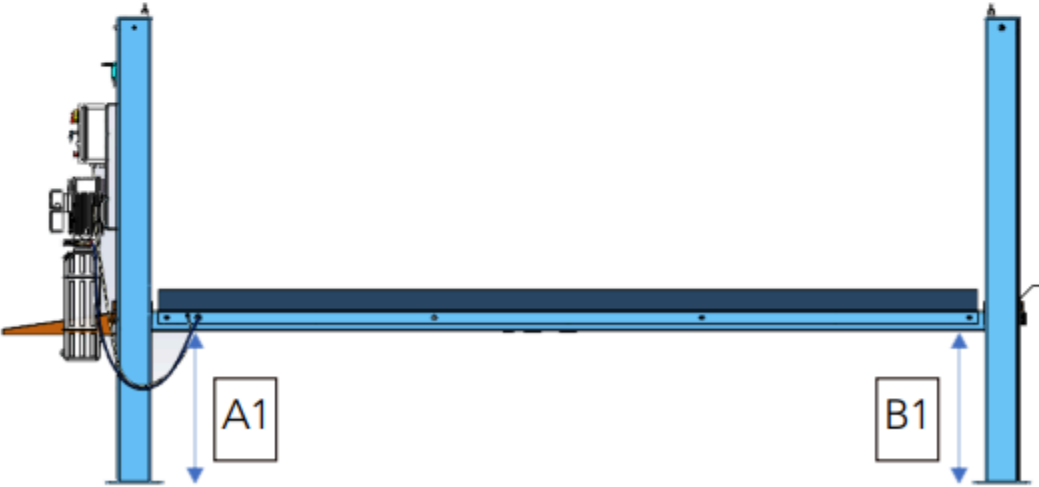
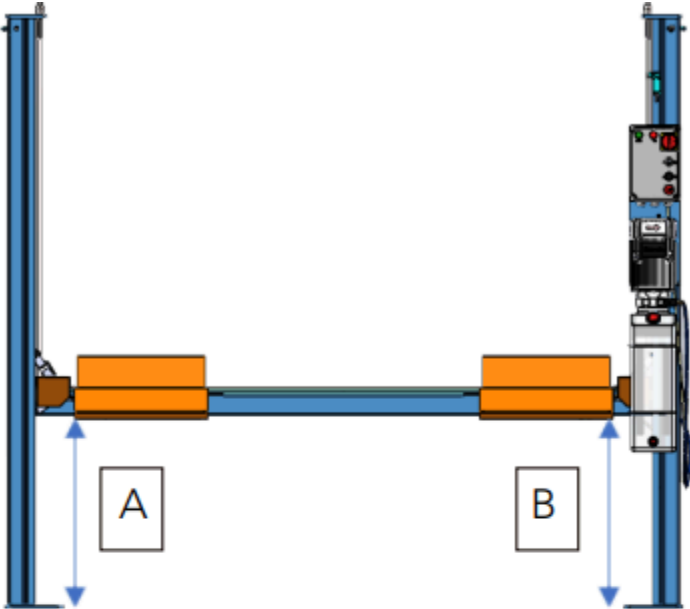


Chart 19 Section view

Fix all the posts onto foundation by anchor bolts.
Fix the covers for locking mechanisms and place the six cover plates onto the middle of the platform.

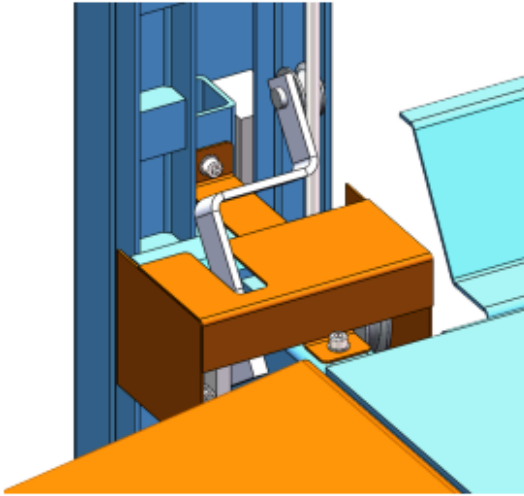


Chart 20 Mounting covers for locking mechanisms

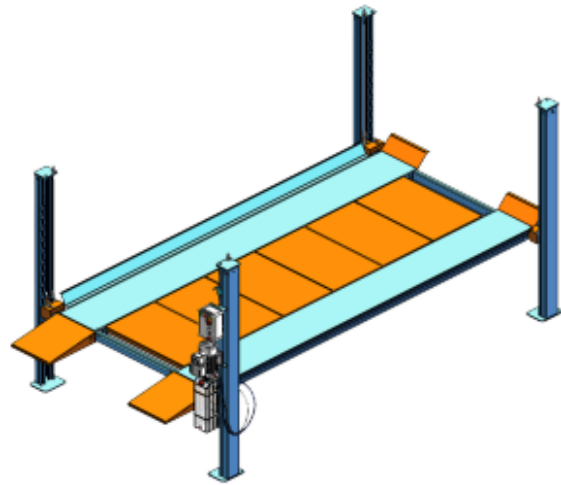


Chart 21 Placing middle cover plates

PARKING

Drive the car onto the appropriate position of the platform.

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.

Turning UP to lift the platform to the targeted position, and the platform will be locked automatically.

When the platform is at the top position, keep turning DOWN to make the platform descend until it reaches the ground.

MAINTENANCE

Do lubrication on wire ropes once per month.

Change all the hydraulic oil three months after first operation; and change oil every nine months after first changing.

Frequently check the screw nuts of bolts, if any screw nut is loosening please fasten it ASAP.

Before operation, please do testing on the top limit switch

The seal in the hydraulic cylinder should be replaced every two years.

The nylon sliders should be replaced every two years.

The valve element in the solenoid valve and filter in the power unit should be cleaned every half year.

FOUNDATION

When installing the parking lift on existing floor

The floor must be flat and concrete, allowed degree of slope is 1%

Minimum thickness is 300mm, concrete grade C30 or above.

If your concrete floor slope is <1%, please use shims to level the lift.

If your concrete floor slope is >1%, consider making the floor level or using a different location.

If floor thickness is <300mm, please consult your architect or structural engineer to calculate the loading force

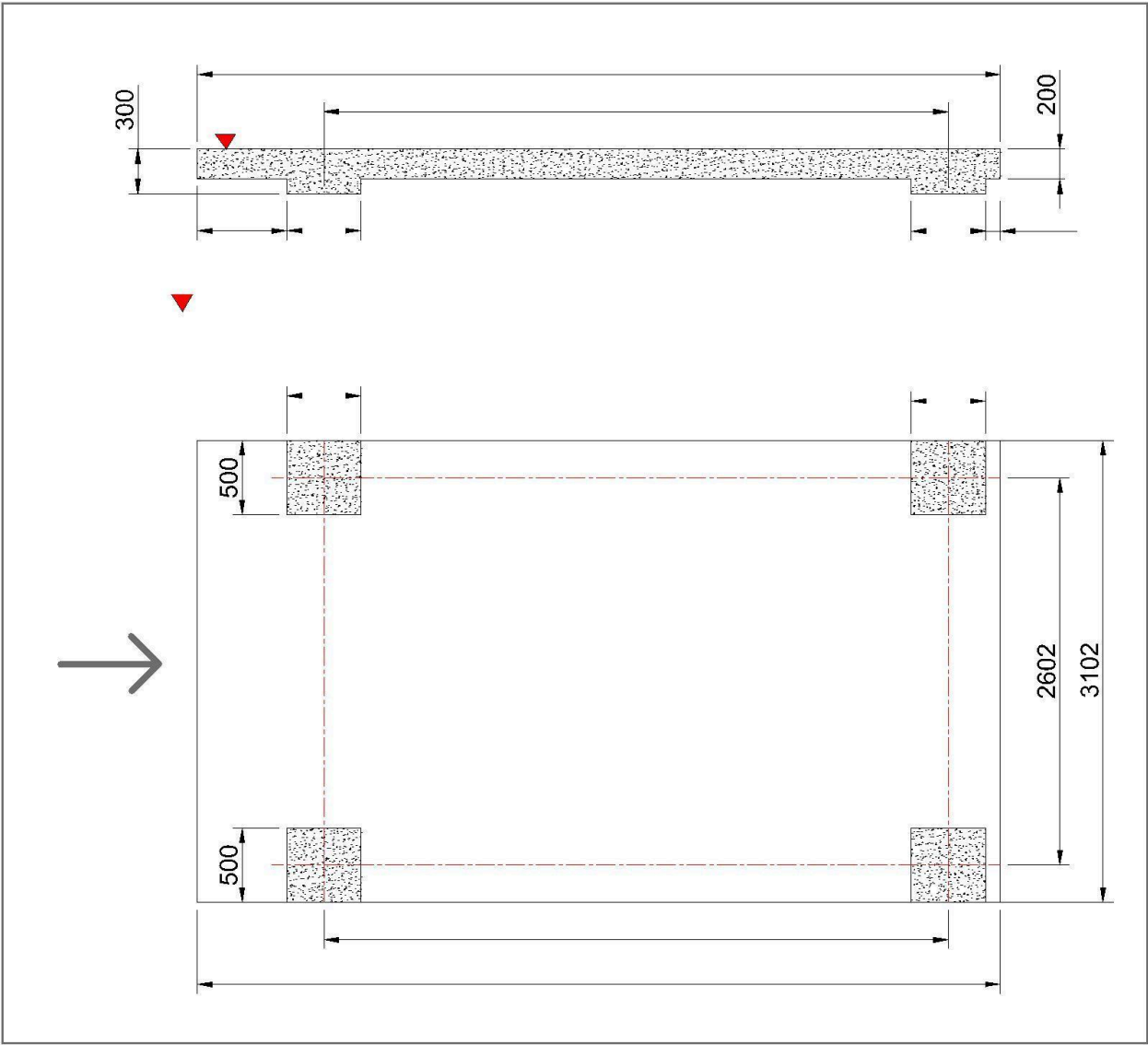
to the floor, ensuring that the floor is strong enough to hold the force. Weight of each HP2525 is approx. 2000kg.

When making a new floor for your lift

Minimum concrete thickness is 200mm, concrete grade C30 or above;

Concrete beneath columns shall be treated separately, thickness at least 300mm, area 500x500mm.

Pour concrete over rammed earth as shown in below figure, allowed tolerance for evenness is <10mm



PRODUCT PICTURES AND DIMENSION

