

# TWO POST TILTING PARKING STACKER: TP2700B

**SUPAMAXX™**

HVM & PERIMETER SECURITY SPECIALISTS

A SMART PARKING SOLUTION THAT'S DESIGNED FOR LIMITED HEIGHT CLEARANCE



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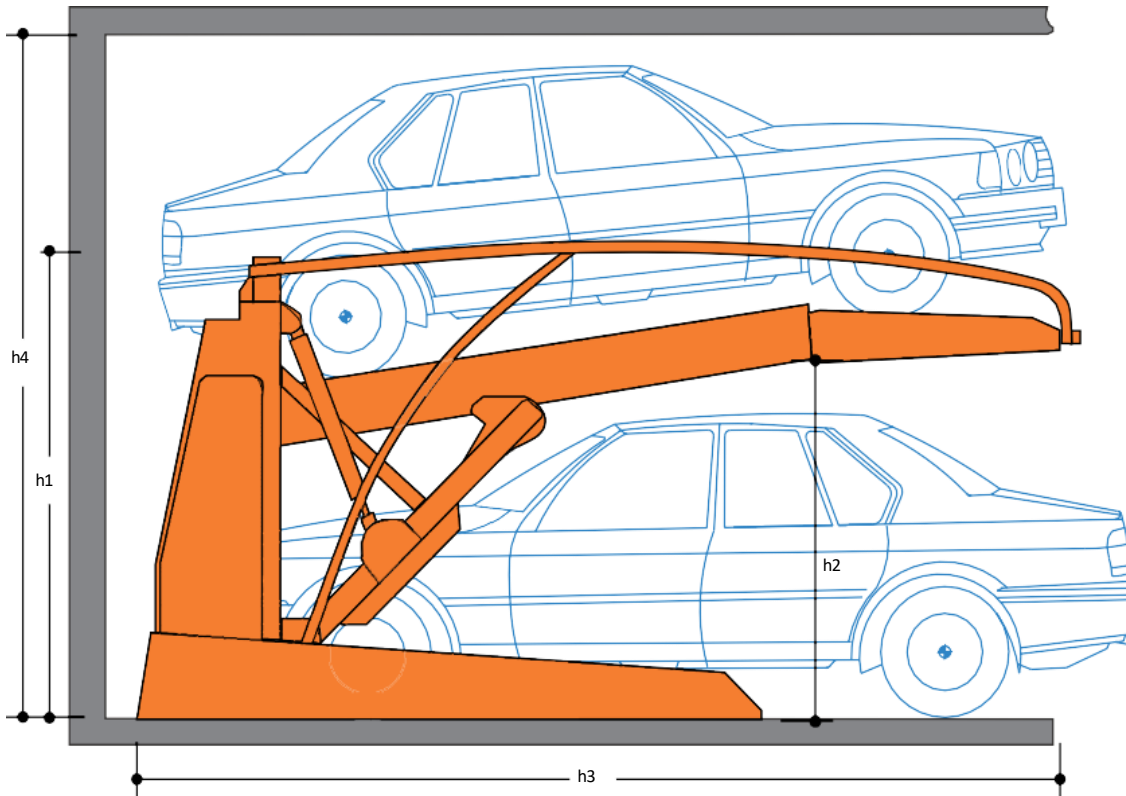
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## INTRODUCTION



### TP2700B - Dimensions

H1(mm)1850

H2(mm)1600

H3(mm)3899

H4(mm)2900

The Supamaxx two-post tilting parking car stacker enables 2 cars to park in a limited-height car space that till now would only park a single car. TP2700B is only to be used for sedans, and it is the idea and only option if you don't have enough ceiling clearance for a standard horizontal lifting car stacker that normally requires a minimum height clearance starting at 3300mm. The TR2700B moves vertically, the users must clear the ground level to get the higher-level car down. The TR2700B two-post tilting parking car park stacker is the ideal option for ceiling heights from 2900mm - 2300mm.

It is a hydraulically driven unit that is lifted by cylinders. Our standard lifting capacity is a maximum of 2700kg. Optional finishing and waterproof treatment are available at the customer's request for quantity orders.

- Designed for low ceiling height.
- Galvanized platform with wave plate for better parking
- 10-degree tilting platform
- Dual hydraulic lifting cylinders direct drive
- Individual hydraulic power pack and control panel
- Self-standing and self-support structure
- Can be moved or relocated.
- 2700kg capacity, suitable for sedans only
- Electric key switch for security and safety
- Automatic shut-off if the operator releases the key switch.
- Both electrical and manual lock releases for your choice
- **Maximum lifting height adjustable for different ceiling height**
- Mechanical anti-falling lock on top position
- Hydraulic overloading protection

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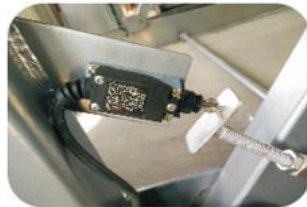
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# GENERAL PARTS

- 1) Platform
- 2) Left Ground Support Beam
- 3) Right Ground Support Beam
- 4) Left Upright Column
- 5) Right Upright Column
- 6) Wheel Stop Bar
- 7) Left Hydraulic Lifting Cylinder
- 8) Right Hydraulic Lifting Cylinder
- 9) Control Box
- 10) Power Control Cabinet
- 11) Safety Lock
- 12) Limit Switch



## ADVANTAGES



- Ultra-low noise because it is a hydraulic cylinders-driven type, no matter whether the car is up or down, it makes low noise because of the buffering of the cylinders.
- Safe and reliable The limit switch on the post and the anti-drop device offers double safety for this equipment.
- Fast and easy installation with part of the structure pre-assembled in the factory, it makes for a very easy on-site installation.
- Simple operation
- Product finishing Premium powder coating as the standard to provide the ultimate finish.
- Top-quality processing
- The TP2700B product is 100% cut by laser and more than 60% welded by robot.
- Suitable for both home use and private apartment car space use.

NOTE: Before operating the TP2700B, all persons MUST have read and understood the Supamaxx TP2700B Operating and Procedure Manual and operate the unit accordingly.

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## SPECIFICATIONS

Model	TP2700B
Max Vehicle size	5000mm(L) x 1850mm(W) x 1550mm(H)
Max Vehicle weight	2700Kg
Lifting height	1600mm
Lock mode	Position Lock
Drive mode	Hydraulic
Surface treatment	Powder Coating
Control power	24V
Lifting time	24 sec
Lowering time	24 sec
Voltage	380V / 220V
Motor power	2.2 kw

## SURFACE TREATMENT



For this kind of equipment, our standard surface treatment is powder coating for the mainframe and galvanized plate for the platform.

- Powder coating is applied as a free-flowing, dry powder. It is typically applied electrostatically and is then cured under heat to allow for it to form a "skin".
- Powder Coating is usually used to create a hard finish that is tougher than conventional paint.

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# MANUFACTURING PROCESS



Cutting Process



Bending Process



Welding process



Packing Process

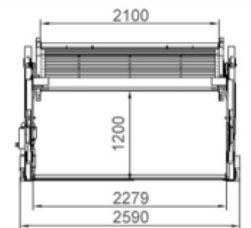
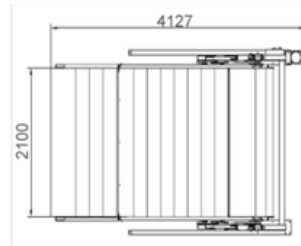
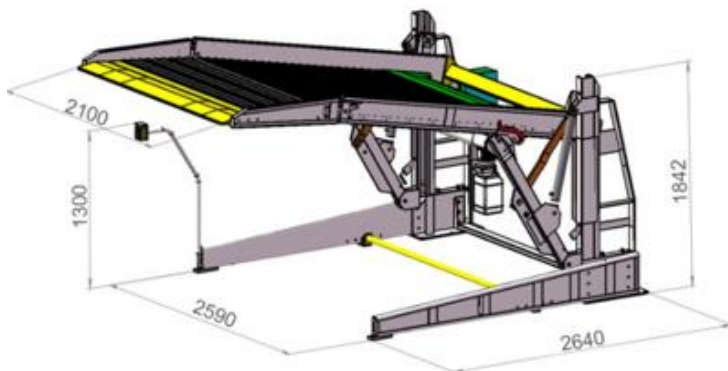


Make spare parts process



Powder Coating

# DRAWING



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# Operation Procedure

Attention during operation:

- Only trained persons can operate the equipment:
- Before operating, confirm there is no person in the footprint of the equipment area.
- Prohibit anyone from entering the equipment area except the driver.
- When parking:
  - 1) (1) Put away / lower the antenna, and slowly drive onto the platform.
  - 2) Position and Park the car.
  - 3) Apply the handbrake and turn off the car's ignition; Exit out of the car and close the door.
- Contact the supplier/installer if there is any abnormal trouble. Never try to fix an issue yourself.
- Prohibit parking a car that the Technician has not programmed the TB270 Car Stacker for, as the wrong car may result in damage to the vehicle, the Stacker unit, and or the building structure.
- Prohibit fire around the equipment.
- When you are not operating the TR2700, it is advised that you always turn off at the Stacker Control Cabinet.

## Attention during operation.

- 1) Before operating, confirm there is no person or object in the parking area to avoid accident.
- 2) Ensure that the TR2700B in the down position and ramp is completely contacting the car space surface.
- 3) Reverse the car slowly and precisely onto the ramp, ensuring that the car is also centred on the ramp. Continue reversing until the vehicle gently contacts the wheel 'bump stop'.
- 4) Place the vehicle in 'Park' and engage the 'Hand Break'. Now turn the vehicles ignition off.
- 5) Driver is to exit the vehicle. NOTE: When exiting the vehicle, do so with care and caution, ensuring that the car door does not make impact or contact with the frame uprights or controller arm of the TR2700B. The driver must also watch their step as they exit the ramp walking along the side of the car and down the ramp exactly the same way the car mounted the ramp as this is the safest path. NOTE: Do not step sideways off the ramp as you may lose your footing and injure yourself due to raised step.
- 6) Once you have exited the vehicle and are now at the controller of the TR2700B, you need to ensure that no persons, animals, or objects can obstruct the carparking stacker from raising up into its pre-set position to avoid an accident. Once you are absolutely certain all is clear and the area is safe to operate the TR2700B, then you can press the up button on the controller which will raise the vehicle up until it reaches its pre-programmed height.
- 7) Now the Car Stacker is in the Raised position, you can freely move the Second vehicle in and out of the Underneath car space at will.
- 8) NOTE: It is always recommended that you have a Supamaxx Certified Technician program your TR2700B Tilted Parking Stacker so that the raised ramp limit switch heights are appropriate for each of your Vehicles, so to avoid accidental damage.
- 9) The car can be parked or taken out only after the platform is fully raised and has stopped running. Parking the car in appropriate position according to the car length and height to avoid car damage. After parking the car, apply the hand brake and leave.
- 10) To retrieve the car that is in raised position on the TR2700B, you must firstly remove the lower vehicle and ensure that the area below is kept clear.
- 11) Now you are clean to lower the vehicle by pressing on the 'Down' button.
- 12) Once the ramp has lowered and made contact with the floor, you may now enter the vehicle and drive slowly forward until you have driven off the ramp completely.

## Maintenance

Maintenance should be according to the working frequency of the parking equipment.

- 1) Daily maintenance and check: The user or operator should responses the daily maintenance and check. The platform and parking ground should be kept clean and clear; Clear the surface of the moving parts; If there is any abnormal noise, please inform the maintainer.
- 2) Regular maintenance and check: Professional maintainers should do regular maintenance and check, and details as per the table below.

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# Check List of Maintenance

- | No. | Check List   |
|-----|--|
| 1   | Running Condition.   |
| 2   | Foundation of Main Column.                                   |
| 3   | Fixation of bolts.   |
| 4   | Street frame and platform deform.                            |
| 5   | Lifting device.  |
| 6   | Hoisting arm of the platform.                                |
| 7   | If there is any leakage in or around the cylinder.           |
| 8   | If there is any abnormal noise about the transmission device |
| 9   | Pulley running condition.                                    |
| 10  | If there is deformation about the pulley.                    |
| 11  | If the location of the limit switch is right.                |
| 12  | Adjust the balance of the platform.                          |
| 13  | If the Hydraulic oil in the power unit is enough.            |
| 14  | If there is any abnormal noise in the unit                   |
| 15  | If the oil hose is worn.                                     |
| 16  | Brake steel cable is worn.                                   |
| 17  | If anti-drop hook runs normally.                             |
| 18  | If wire insulation bush or pipe is worn.                     |
| 19  | If each indicator light is normal.                           |

## Trouble Shooting

Failure	Reason	Method
	Outage	
No power	Power switch trip	Switch on
	Key switch is on OFF	Turnkey switch to ON and power light will be on
Lights are not work	Power light, button light and warning light are all burned	Change the lights
Mechanical part does not work	Knob of control box fails	Change the knob
	Limit switch fails	Repair or change limit switch
Platform cannot be in place	Limit switch displaces.	Adjust the position of limit switch
	Platform is blocked	Clear the block
Platform cannot stop when it is in place	Limit switch displaces	Adjust the position of limit switch
	Limit switch fails	Repair or change limit switch

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## QUESTIONS & ANSWERS

- 1) How many cars could be parked for each set?
- 2) cars. One is on the ground and another is on the second floor. Is TP2700B used indoor or outdoor?
- 3) Both of them are available. The finishing is powder coating and plate cover is galvanized, with rust-proof and rain-proof. When used indoor, you need consider the ceiling height.
- 4) 100mm is the best height for 2 sedans with 1550mm high. Minimum 2900mm available height is acceptable to fit for TP2700B. Is the operation easy?
- 5) Yes. Keep holding the key switch to operate the equipment, which will stop at once if your hand releases. If the power is off, can I use the equipment normally?
- 6) if the electricity failure happens often, we suggest you have a back-up generator, which can make sure the operation if no electricity.
- 7) What's the supply voltage?
- 8) Standard voltage is 220v, 50/60Hz, 1Phase. Other voltages could be customized according to clients' request. How to maintain this equipment? how often it need the maintenance work?
- 9) We can offer you the detailed maintenance guide, and actually the maintenance of this equipment is very simple, for example, keep the round environment tidy and clean, check whether the cylinder is leak oil, the bolt is loose or the steel cable is worn



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