

CAR STACKERS AUSTRALIA

Product Dimensions, technical information and performance specification



PTP23/2100

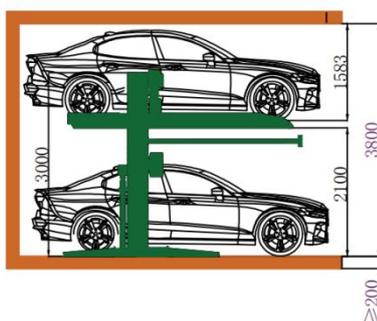
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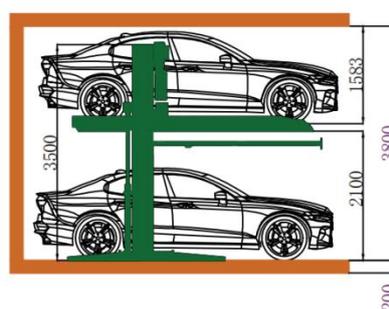
SPECIFICATIONS:

- Car height at lower places 150 - 200 cm.
- Platform width up to 250 cm and platform load 2,300-3,200 kg.
- Doubled parking places in the available space.
- 1 driving level = 2 parking levels = cost savings.
- Lower places for visitors, upper places for permanent users.
- Ideal for car sharing, valet parking, car rentals, car service centers.
- Low wear, proven hydraulic technology.
- Low maintenance cost.
- Low construction cost, can be fixed at given concrete floor and ideal for retrofitting.
- High level of operational and functional safety (CE compliant)

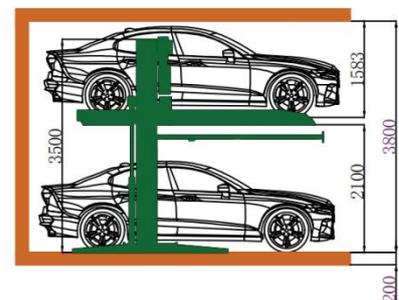
Dimension standard type:



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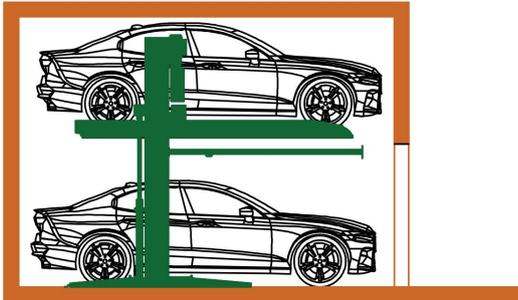
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Dimensions and tolerances:

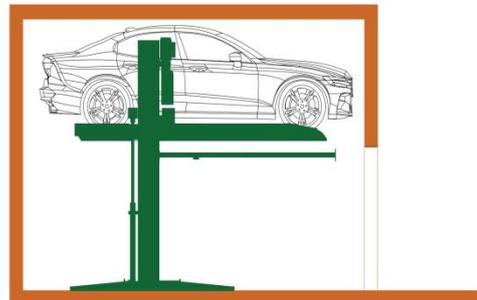
All dimensions and minimum final dimensions.

Tolerance for dimensions ± 10 . Dimensions in mm.

Parking positions:

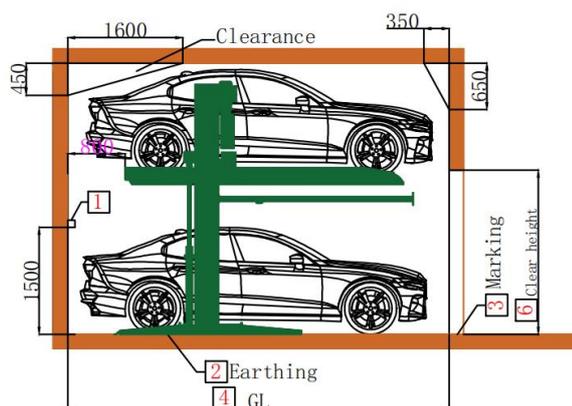


The lower vehicle can park in or leave

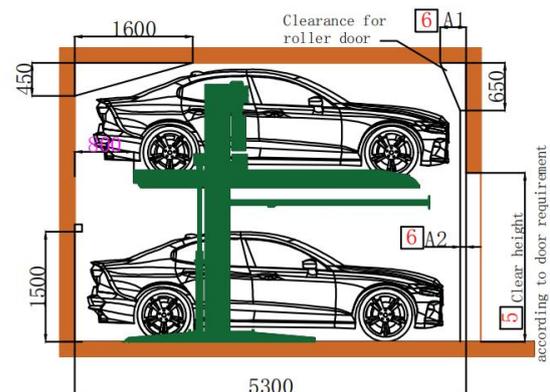


The upper vehicle can park in or leave

Overview of building configuration:



Building configuration without door



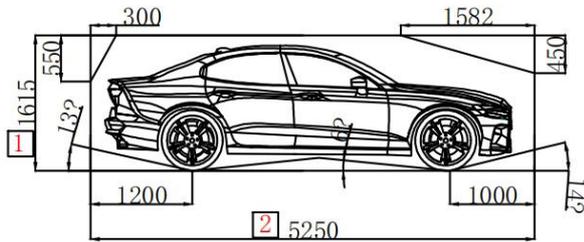
Building configuration with door

- 1 With dividing walls: Wall opening 10 x 10 cm.
- 2 Equipotential bonding from foundation earth connection to system (to be provided by the customer)
- 3 the customer must provide 10 cm wide, yellow/black marking in accordance with DIN ISO 3864, in the access area in front of the contact area of the upper platform edge to identify the hazard area.
- 4 GL = building length 5300mm for vehicles up to 5.0 m long Shorter versions are possible on request - observe local regulations on parking space lengths.
- 5 Clear height in accordance with local regulations. Maximum vehicle height + 10 cm.
- 6 Dimensions A1 and A2 must be coordinated between the door manufacturer and the customer

Vehicle data:

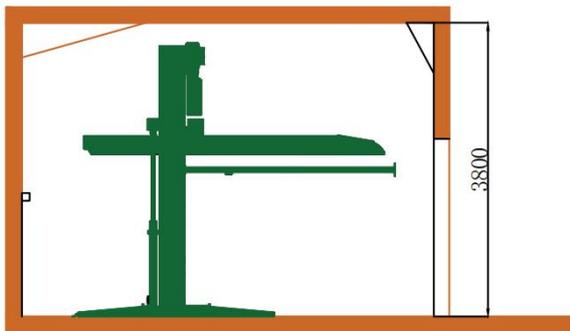
Series vehicles:

saloon, estate, SUV, van in accordance with clearance gauge and maximum parking space load.



① Vehicle height

② vehicle length



① ceiling height(mm)

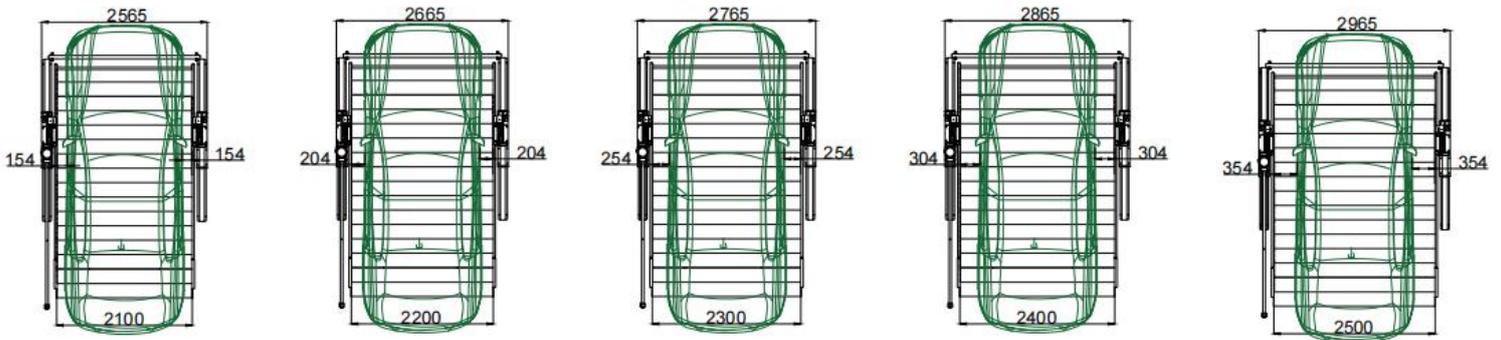
If the ceiling is higher, correspondingly higher vehicles can be parked on the top.

car height upper \ lower	1500	1600	1700	1800	1900	2000	2100
1500	3200	3300	3400	3500	3600	3700	3800
1600	3300	3400	3500	3600	3700	3800	3900
1700	3400	3500	3600	3700	3800	3900	4000
1800	3500	3600	3700	3800	3900	4000	4100
1900	3600	3700	3800	3900	4000	4100	4200
2000	3700	3800	3900	4000	4100	4200	4300

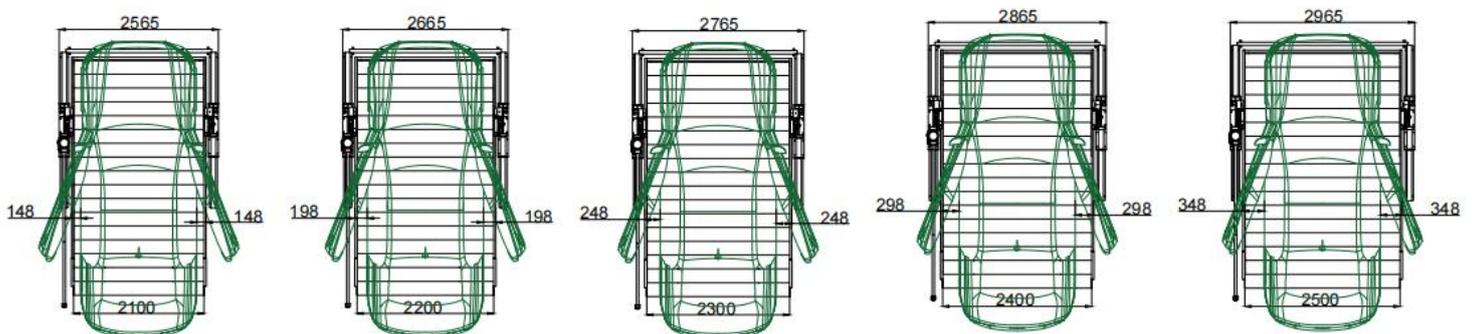
Example: the upper car height is 1800mm, the lower car height is 1800mm, ceiling height is 3800mm

Vehicle width dimensions

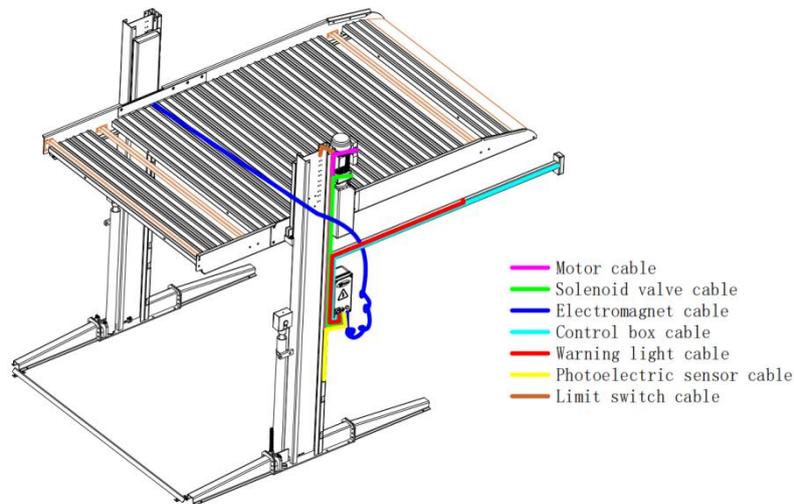
The standard entry width is 2100mm. To accommodate more vehicle models and ensure comfortable boarding and alighting, we can widen the parking platform to 2500mm for greater comfort.



Door-opening-distance with different platform widths:



Electrical specifications



Cabling preparation to be performed by the customer:

- ◆ up to the main switch to be in place prior to starting the installation operations
- ◆ connection to the main switch during installation
- ◆ system functional check testing can be performed by NJM lifters together with the electrician provided by the customer
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- ◆ If requested at a later date, functional check testing can be performed by NJM lifters
- ◆ Grounding and potential equalization : connections required every 10 meters.

Item	Model	Qty	Length	Use Location	Connection line number
Electromagnetic iron wire	2*0.75	1	1 m		10/32
Travel switch line	2*0.75	1	2.5 m	overtravel-limit switch; position switch; travel switch	18/21
Electromagnet wire	2*0.75	1	2 m	electromagnet	
Control box line	5*0.75	1	4 m	Control box to the power distribution box	1/2/18/19/20
Electromagnetic valve line	2*0.75	1	2 m	Power unit oil drain valve	33/34
Spring wire	2*0.75	1		Connect the electromagnet to the power distribution box	
Motor wire	3*2.5	1	2 m	Power unit motor to the distribution box	240v 50hz 1p
Alarm light line	2*0.75	1	3.5 m		10/11
Photoelectric sensor line		1		With a wire / bracket / bolt	Brown 3, blue 10, white 19 and yellow 7

Cleaning and maintenance

1. Cleaning the Car Parking Systems

◆ Basic cleaning of the platform upper side (At least 1 x yearly)

regular cleaning of the platform upper side helps to preserve the system and is absolutely essential. The platforms driven over by cars are swept clean by using a broom or vacuum cleaner. Due to the high risk of slipping, surface treatment with oil on the upper side of the platform is not recommended.

◆ Cleaning in winter.

As the winter months cause more heavy wear due to snow, ice, road salt, chippings etc. when the platform surfaces are driven over, the following measures are to be observed.

A. In winter remove any regular condensation in particular below the upper platform(s).

B. Snow, ice, road salt and dirt deposits are to be removed from the platforms.

C. Carry out a thorough cleaning of the platforms and the running rail of Parking Platform 501 with broom, vacuum or water jet (domestic water connection up to 5 bar). (Do not use high pressure cleaners.) Due to the high risk of slipping, surface treatment with oil on the upper side of the platform is not recommended.

◆ Basic cleaning of the garage body/pit, unit parts in the pit. (At least 1 x yearly, in winter monthly 1x additionally check and if required carry out At least 2 x yearly)

A. Wet clean the pits: Remove snow, rain, surface water etc. in the pits by cleaning and then properly dispose of. It is necessary to secure the Car Parking Systems from lowering.

B. Supports, support bases and support mounts are to be cleaned of dirt deposits.

C. Dry clean the pits, swept-clean.

2. Looking after the Car Parking Systems

◆ Galvanized plate surfaces

A. Zinc oxide (white haze) is caused by steady damp, poor ventilation or similar. The protective action of the zinc layer underneath is not affected by white haze!

A special surface service is only necessary if required for optical reasons. We recommend the use of grinding wool grain A 280 medium fine or a brass brush (do not use wire brush!)- available in building material stores or DIY outlets. Caution: do not use grinding paper or grinding cloth, risk of damaging the surface. If required coat afterwards with a resistant coating material.

B. Iron oxide (rust) caused, for example, by mechanical loading, wear, road salt deposits, insufficient or neglected care. Care measures by means of lightly rubbing down the damaged surface with grinding wool grain A 280 medium fine (obtainable from trade stockists or DIY outlets). Paint treated surfaces. (At least 1 x yearly. Check during basic cleaning, and treat if need be)

◆ Screws, nuts, washers (At least 4 x yearly. Check and treat if necessary)

When performing basic cleaning of the units immediately check all screws, nuts and washers for correct fit. In the event of rust, brush with a brass brush applying light pressure and clean and spray protective wax after cleaning.

◆ Powder-coated surfaces (At least 2 x yearly. Check during basic cleaning and treat if necessary)

Damage due to mechanical or other effects are to be treated as soon as they are detected in order to prevent impairments or infiltration of the powder coating. Care or improvement measures are to be carried out as follows: light rubbing with emery cloth, grain 120 or brass brush (do not use a wire brush!) followed by cleaning and degreasing with brake cleaner. Apply the touch-up paint to the damaged points with a brush, such as for example Poly flex. Touch-up paint RAL 7030 stone grey, air-dried.

3. General remarks

- ◆ The above-mentioned cleaning, care and maintenance work is to be assured, for example, by rental agreements caretaker Services.
- ◆ Care set for Surface Protection consisting of:
 - 1 special broom to clean the platform
 - 2 tin of spray-on wax (400 ml)
 - 1 tin of zinc touch-up paint (500 ml)
 - 1 tin of RAL 7030 touch-up paint (stone gray)
 - 1 paint tray
 - 1 touch-up stick (yellow)
 - 1 tin of brake cleaner (500 ml)
 - 3 brushes
 - 2 brass hand brushes
 - 1 brass-wired brush
 - 5 pieces of grinding wool

Notes and directions

● Scope of application

Suitable for residential buildings, office buildings and business premises, hotels only for long-term users that have been instructed on how to use the system
 -for frequently changing users (e.g. for office, hotel and business premises or similar):-only parking on lower parking place-performance of technical system adjustments is necessary-consultation with NJM team is mandatory

● Noise protection

Basis is the German DIN 4109 "Noise protection in buildings" With the following conditions required 30 dB (A) in rooms can be provided:- noise protection package from our accessory- insulation figure of the construction of min. $R'w = 57$ dB- walls which are bordering the parking systems must be done as single wall and deflection resistant with min. $m' = 300$ kg/m²
 solid ceiling above the parking systems with min. $m' = 400$ kg/m²
 At differing constructional conditions additional sound absorbing measures are to be provided by the customer The best results are reached by separated sole plates from the construction. Increased noise protection: If increased noise protection: must be provided planning has to be confirmed on a project basis by NJM team.

● Temperature

System operating range: +5°C bis +40°C (with unloaded platforms lowering speed is reduced if less than +5°C)-humidity: 50 % at +40°C
 -in the event of changes to system conditions please consult with NJM team.

● Lighting

Sufficient lighting of the driving aisle and of the parking places must be performed by the customer

● Fire safety

All fire safety requirements and all mandatory

equipment (fire extinguisher and fire alarm systems, etc.) must be performed by the customer

● Hydraulic power pack

The hydraulic power unit must be accessible via the entrance level

Sheltered from wind and weather (not in residential buildings)

space requirements: 820*200*240mm (L*W*H)

-sound insulation hood for protection against rain and airborne sound transmission at extra cost

Please consider lengthier lowering time when outside temperatures are low-system standstill possible when temperatures are below zero

● Railings

If walkways are arranged directly to the side or behind the systems, railings have to be provided by client acc. to local requirements. This is applicable during the construction phase too.

● Prevention of corrosion damage

zinc-plated parts, components and platforms are to be kept clean of dirt, road-salt and any other debris (due to corrosion hazards) always keep the garage well ventilated and deaerated.

● Tender specification

please consider the specifications!

● Construction alterations and/or modifications

The right to construction or model modifications and/or variations is hereby reserved

The right to any subsequent part modification and/or variation and amendments in procedures and standards due to technical and engineering progresses or due to environmental regulation changes is also hereby reserved.