



## 2 PARK

### SPECIFICATIONS

#### 1. DESCRIPTION:

- The machine allows parking of two cars or two boats one above the other
- The machine is semi automatic that enables parking of both cars independently
- The machine can be parked with cars arriving 90° to the machines entrance, since it has a rotating platform
- The machine is structured of moving steel profiles and chain operated by motor
- The machine can be placed in all parking ground types, closed, underground, open (in open parking grounds a protection against wind is required)
- The machine is for personal use by authorized persons with the use of a key
- The machine can be installed with a non-rotating platform version according to customers need
- The machine is equipped with an acoustic warning sound that operates when machine is in operation
- The machine was CE Conformity

#### 2. MACHINES DIMENSIONS:

	<b>DIM</b>	<b>CLOSED POSITION</b>	<b>OPEN POSITION</b>
2.1	LENGTH	4.90m	10.55m
2.2	WIDTH	2.64m or 2.54m	5.33m
2.3	HEIGHT	2.10m	1.80m
2.4	SELF WEIGHT	1650KG	

#### 3. LOADING CAPACITY

	<b>MAX VALUES</b>	<b>BOTTOM CAR</b>	<b>TOP CAR</b>
3.1	LENGTH	4.90m	4.90m
3.2	WIDTH	2.00m	2.00m
3.3	HEIGHT*	1.5m	**
3.4	DIST.BET.AXELS	4.9m	2.80m
3.5	CAR WEIGHT	UNLIMITED	2000kg
3.6	FRONT AXEL LOAD	UNLIMITED	1200kg
3.7	REAR AXEL LOAD	UNLIMITED	1200kg

\* Height including all elements attached to the roof like antennas

\*\* Top car maximum height is ceiling height minus 1.8m

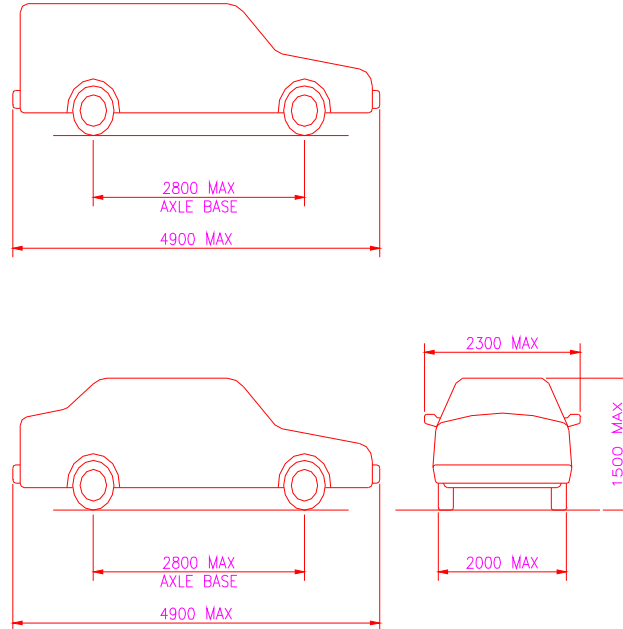
\*\*\* for top car 1.5m, minimum ceiling height required is 3.4m

#### 4. ALLOWED STANDARD CAR DIMENSIONS

**Car Stackers Australia Pty Ltd** ABN 85 105 492 911

274 Wolseley Place Thomastown VIC 3074 **t 03 9462 7400** **f 03 9462 7411** **carstackers.com.au**  
 8/15 Valediction Road Kings Park NSW 2148 **t 02 9831 2855** **f 02 9831 2822** **carstackers.com.au**

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## 5. MACHINES DETAILS

### 5.1 LOADS:

NOMINAL (MAXIMUM) LOAD: 2000kg  
MACHINES SELF-WEIGHT: 1650kg

### 5.2 ELECTRIC SUPPLIES:

POWER: 2.2KW  
CURRENT: 3\*6A (FOR EACH MACHINE)

### 5.3 TEMPERATURES:

EXTREME TEMPERTURES -30° TO +60° CELSIUS.

### 5.4 GROUND SLOPES PERMISSIBLE FOR INSTALLATION:

MAXIMUM LATERAL SLOPE 1%  
MAXIMUM LONGITUDINAL SLOPE 3%

### 5.5 LIGHTING REQUIRED:

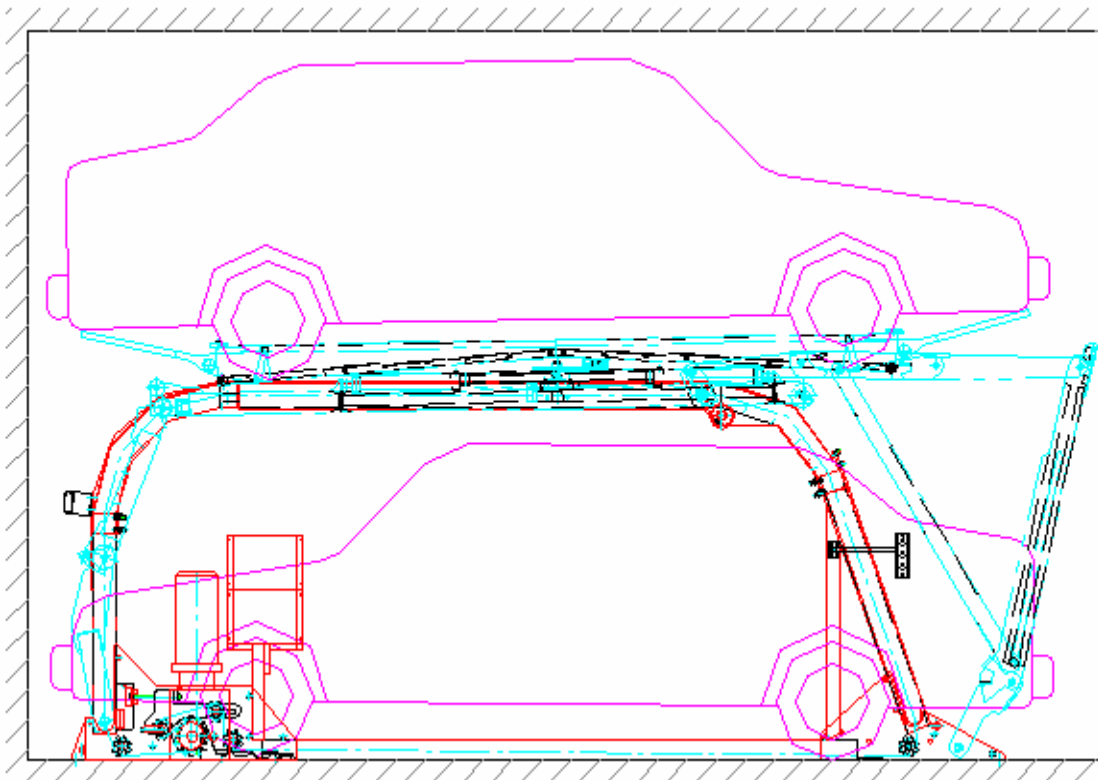
AN AMBIANT LIGHTING OF 20 LUX MINIMUM CONVERTED LIGHTING  
TO BE SUPPLIED BY CUSTOMER FOR EACH MACHINE

## MACHINE STRUCTURE

### 1. GENERAL DESCRIPTION

#### A THE MACHINE IS BUILT OF 8 MAIN UNITS:

- 1 Permanent base
- 2 Mobile base
- 3 Rotating platform
- 4 Motor/gear for mobile base
- 5 Motor gear for rotating platform
- 6 Electricity cabinet
- 7 Operating position
- 8 Acoustic warning signal





## B MAIN UNITS DESCRIPTION:

### 1 Permanent base

Built of 6mm thick steel ST37 welded with CO2 welding  
The base can carry any vehicle up to 2260kg w/o permanent deformation  
The base is connected to the floor with 4 anchor bolts Ø12X120  
The front two anchor bolts are loaded for pulling of 500kg each

### 2 Mobile base

Built of 6 joints made of 5mm thick steel ST37 welded with CO2 welding  
The joints provide maximum stability of vehicle both in front and rear entrance of vehicle and through out the motion of the mobile base

### 3 Rotating platform

Built of hot galvanized steel  
Sealed for preventing leaks of water and oil from up mounted car to the bottom car  
Platform edges are equipped with 2 rising slopes to Annabel vehicle entering and exiting  
The platform is located on a steel rotating steel frame

### 4 Motor/gear for mobile base

Three phase motor gear 2.2KW with IP55 protection for indoor use and IP64 protection for out door use, with an integral brake that closes when there is a power failure (of any kind)  
The motor operates two circular chains 1.25" each with a sprocket wheel  
The chain is linked to the arm of the mobile base  
Upward motion of the machine pulls the arm along the guiding track on the permanent base from back to front  
Downward motion of the machine pulls the arm along the guiding track on the permanent base from front to back

### 5 Motor gear for rotating platform

Three phase motor gear 0.25KW with IP55 protection for indoor use and IP64 protection for out door use.  
Motor is located on the mobile base  
The motor pulls a driving belt, that moves by friction the rotating frame  
The rotating frame lifts and lowers the movable slopes by the use of cam, two arms and a steel cable.

### 6 Electricity cabinet

The electricity cabinet is IP55 protection for indoor use and IP64 for out door use  
The electricity cabinet provides Three phase current to the permanent base motor and to the mobile base motor, it provides 24V DC to the operating panel  
The cabinet is protected by a main switch



### 7 Operating position

Operating position is located on the left hand side of the machine  
 Operating position includes a control panel with individual key switch, hold to run push button and an E-STOP red button

### 8 Acoustic warning signal

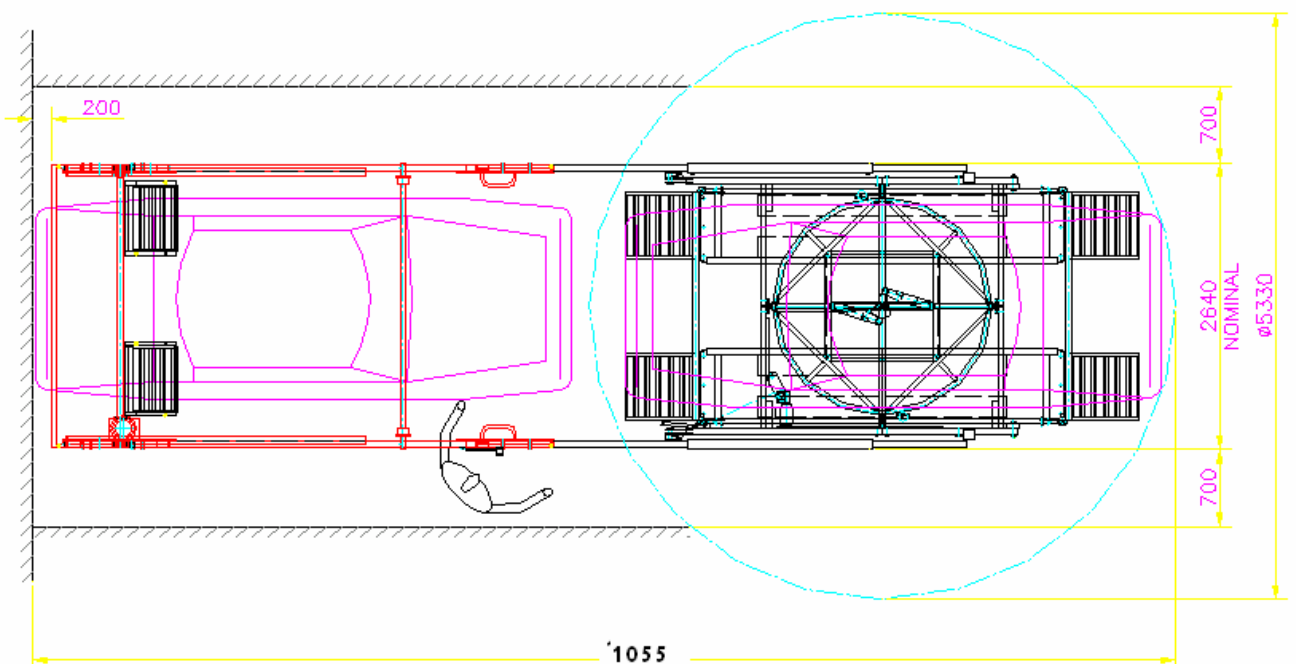
The machine is equipped with an audible warning sign that has an up and down warning beeper that is heard all along machines operation.

## INSTALLATION

### 3. MINIMAL SPACE FOR INSTALLATION:

- The machine can be installed either in open (wind protected) area or in closed area
- In both cases of installation there has to be a free space around the machine to ensure safe entry and exit of the vehicles
- Recommended minimal space on both sides of close machine is 70cm
- Mandatory space between machine front and wall is 20cm minimum

	PARAMETER	LATERAL ENTRANCE	PARALLEL ENTRANCE
1.1	Length	10.55m	10.55m
1.2	Width	2.64/5.33m	5.33/2.64m
1.3	Ceiling height	3.40m	3.40m



## 2. ANCHORING TO THE GROUND

2.1 The machine is to be installed and anchored to a rough floor surface such as concrete or gravel

2.2 The following conditions must be followed:

- 2.2.1 Maximum lateral floor slope should not be exceed 1%
- 2.2.2 Maximum longitudinal slope along **open** machine should not exceed 3%
- 2.2.3 Lateral floor curvature will not exceed 2.5cm
- 2.2.4 Longitudinal floor curvature will not exceed 2.5cm

3 The machine will be anchored in 4 points according to floor type

3.1 Concrete floor 15cm thick:

Anchoring will be with cross section head anchor bolts ½”X120  
As shown in fig 1

3.2 Gravel floor with concrete fixing points:

Anchoring will be with anchors as shown in fig 2

Fig.1

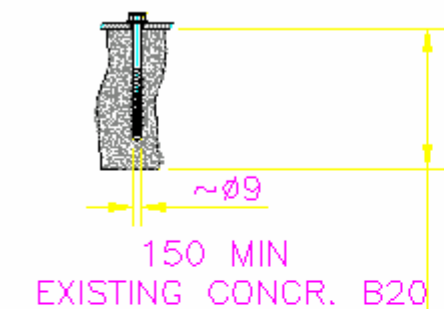
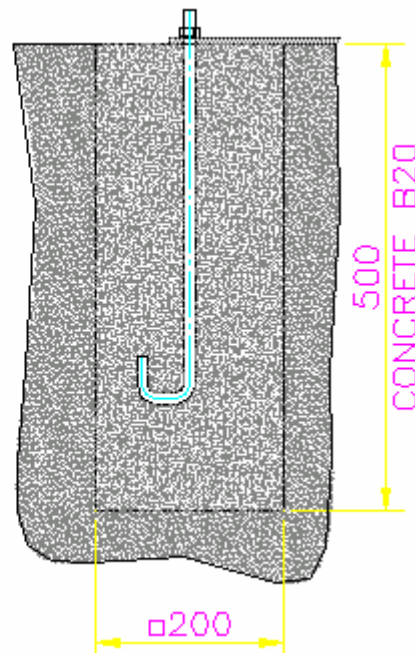


fig.2





#### 4 Electricity supply

The customer will supply power as following:

Three phase power 5X3.5mm

Automatic circuit breaker 3X16A

Power point will be located no more than 2 m from machine

#### 5 Lighting supply

The costumer will supply lighting as following:

20lux-converted lighting for each machine