Data Sheet
WÖHR CROSSPARKER 558

Crossparker 558-2,0: Load per platform max. 2000 kg (load per wheel max. 500 kg).
Crossparker 558-2,6: Load per platform max. 2600 kg (load per wheel max. 650 kg).

Notes

1. Measurements have to be clarified with WÖHR before starting the construction.
2. The manufacturer reserves the right to modify or alter specifications.

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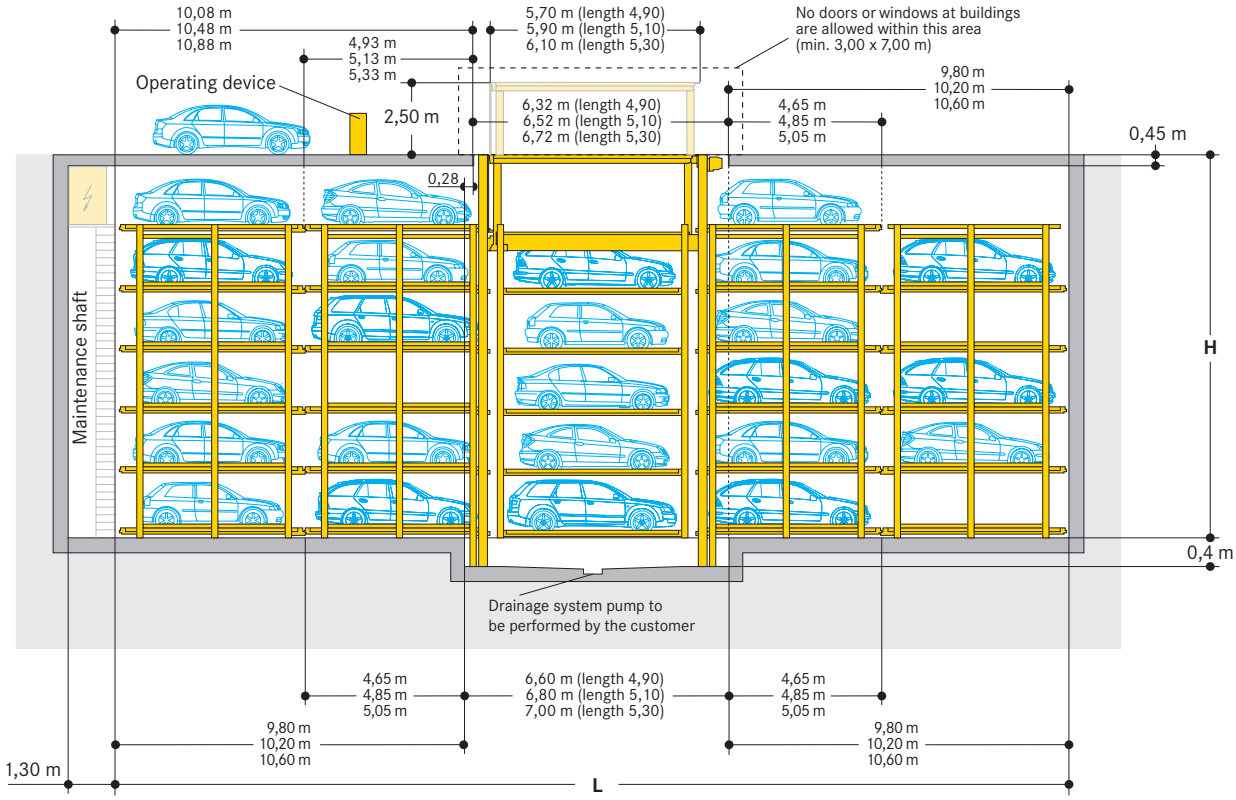
Dimensions

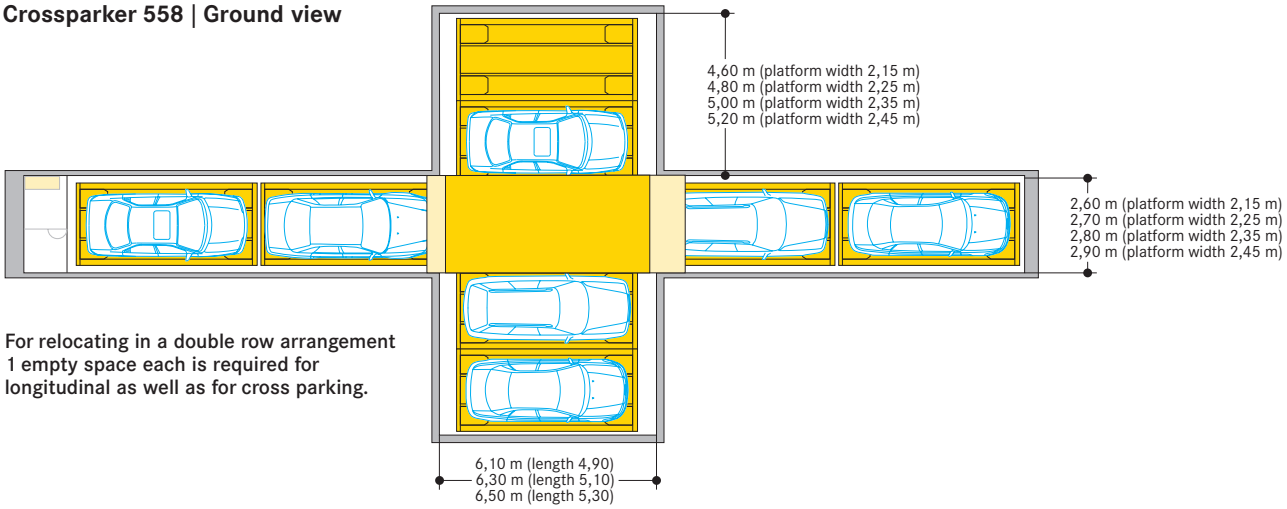


Levels	Height H Car height 1,50 m*	Height H Car height 1,75 m*	Height H Car height 2,00 m*
1	2,77 m	2,77 m	2,77 m
2	4,49 m	4,74 m	4,99 m
3	6,21 m	6,71 m	7,21 m
4	7,93 m	8,68 m	9,43 m
5	9,65 m	10,65 m	11,65 m
6	11,37 m	12,62 m	13,87 m

*Car height in the first level 2,00 m (based on the type of system, it is possible to have up to two different car heights)

All dimensions shown are minimum. Construction tolerances must be taken into consideration.

Crossparker 558 | Ground view



For relocating in a double row arrangement 1 empty space each is required for longitudinal as well as for cross parking.

Options

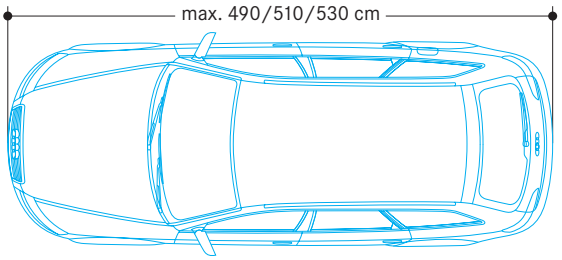
- lifting unit lid with shell covering for onsite floor plastering
- vehicle height and length check via light barrier
- parking aids (mirror, signal lamp, text display)
- car transfer cabin (CTC) closed off with a door
- vehicle monitoring in one CTC via scanner units
- rotation of the vehicle in the system shaft when parking in
- rotation of the vehicle in the pit alongside the system when parking in
- water drainage out of the pallets into the pit flooring
- water drainage out of the lift cover plate into the pit flooring
- preparation of a charging station connection for electric vehicles

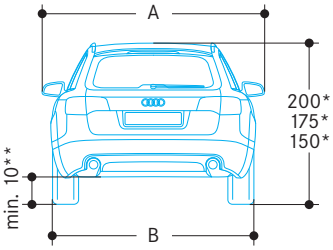
For any one of the options and related requirements/specifications, please consult directly with WÖHR accordingly.

When planning for any scheduled options, it may be necessary to make changes to the system dimension specifications.

We shall readily work out an individual solution with you.

Max. car dimensions





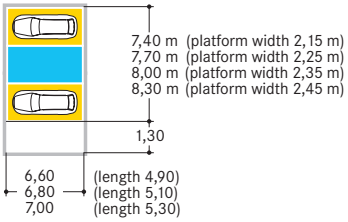
Platform width	Dimension A	Dimension B
215	205	max. 190
225	215	max. 200
235	225	max. 210
245	235	max. 220

* Overall height (cars with roof racks, roof rails, antennas etc. should not exceed the mentioned overall height).

** Clearance underneath the gear case.

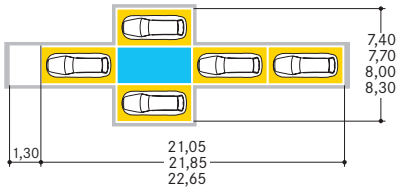
Examples for arrangements

Longitudinal 0 | Lateral 1 + 1



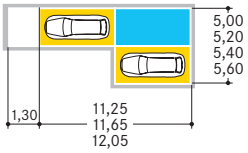
Levels	No. of parking places
1	2
2	4
3	6
4	8
5	10
6	12

Longitudinal 1 + 2 | Lateral 1 + 1



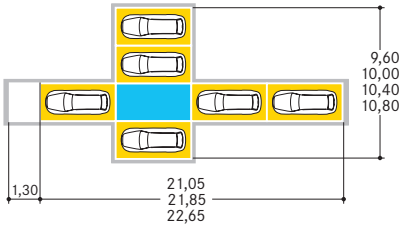
Levels	No. of parking places
–	–
2	9
3	14
4	19

Longitudinal 1 + 0 | Lateral 0 + 1



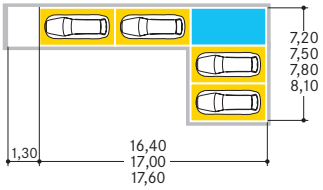
Levels	No. of parking places
1	2
2	4
3	6
4	8
5	10
6	12

Longitudinal 1 + 2 | Lateral 2 + 1



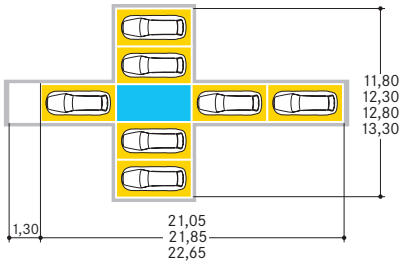
Levels	No. of parking places
–	–
2	10
3	16
4	22

Longitudinal 2 + 0 | Lateral 0 + 2



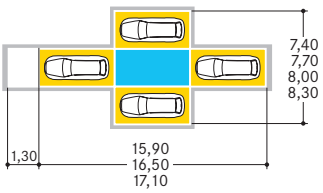
Levels	No. of parking places
–	–
2	6
3	10
4	14
5	18
6	22

Longitudinal 1 + 2 | Lateral 2 + 2



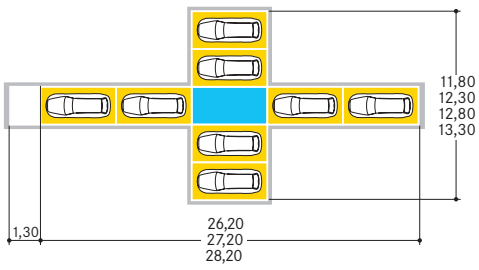
Levels	No. of parking places
1	5
2	12
3	19

Longitudinal 1 + 1 | Lateral 1 + 1



Levels	No. of parking places
1	4
2	8
3	12
4	16
5	20

Longitudinal 2 + 2 | Lateral 2 + 2



Levels	No. of parking places
1	6
2	14
3	22

Electrical data/switch cabinet

1. Main electrical supply 230/400V, 50Hz, 3 phase. Fuse or automatic circuitbreaker 3 x 50 A slow blow (acc. to DIN VDE 0100 p. 430). The selection of options may result in higher power consumption levels.
2. In compliance with the DIN EN 60204 standard provisions, all systems must be connected directly on site with an earthed equipotential bonding. The lead-out connection must be at a 10 m distance!
3. For a remote maintenance (option) an internet connection to the switch cabinet is required.
4. Inside the maintenance shaft the space for the switch cabinet of 170 x 130 x 220 cm must be provided.
5. The control is designed to operate between +5° and +40°C. Atmospheric Humidity: 50% at +40°C. If the local circumstances differ from the above please contact WÖHR (if necessary, the switch cabinet has to be provided with a heating).

Grounding and potential equalisation

For what concerns the switching cabinet, connectivity to the earthing system is to be peformed by the customer so that the equipotential busbar (PAS) in the switching cabinet is connected up to the earthing system with as short a connector as possible. For what concerns the structural steel work arrangements, foundation earthing is to be provided every 10 m (or according to the distances already established in the lightning protection system) so that the overall structural steel work is connected up to the earthing system with as short a connector as possible

Operating device

1. Operating device integrating an RFID reader and a text display for user instructions plus multifunction keys, either on a free-standing column or fixed onto the building wall (on-wall mounted).
2. Arrangement left or right of the entrance (or on both sides).
3. Only for systems with a lifting unit cover lid: The edge of the entrance must be visible over the full length. Distance to the edge of the entrance max. 5 m/min. 1 m.

Operation

1. Control with a hold-to-run device for lifting and lowering the lid.
2. After the lid is completely lowered, the system runs automatically.
3. The parking place will be activated with a transponder (remote control is possible only for systems having a car transfer cabin).
4. As long as the lid is not in a locked end position mechanical entrance- and exit blockers are activated.

Noise protection

Basis: »Sound insulation in buildings«, for technical facilities in buildings must be provided with adequate protection against air-borne and solid-borne sound. If the sound pressure level should not exceed 30 dB (A) in living- and sleeping-rooms at night, the following building requirements must be available:

Insulation against air-borne sound
The building unit must have a sound reduction index of at least R'w 57 dB (A).

Insulation against solid-borne sound
WÖHR offers additional measures for a reduction of solid-borne sound (please ask for optional quotation from WÖHR). We recommend consultation between a sound expert and WÖHR to discuss further possible steps for reduction of the solid-borne sound.

Temperature

The installation is designed to operate between +5°and +40°C. Atmospheric Humidity: 50% at +40°C. If the local circumstances differ from the above please contact WÖHR.

Conformity test

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

Ventilation (to be performed by the customer)

It is necessary to have a ventilation in the pit to evaporate condense and rain water from the cars.

Lighting (to be performed by the customer)

In the transfer area at least 500 lux, see EN 1837:1999.
In the system area at least 50 lux, see EN 81-1:1998.

Fire protection (to be performed by the customer)

Preventive fire protection measures should be discussed between the architect and the building authority and/or the preventive fire protection authority.

Availability

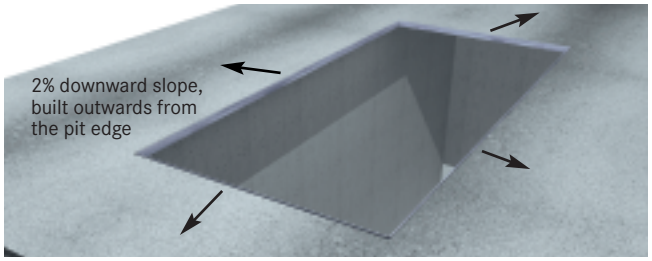
System availability is compliant to the VDI (Association of German Engineers) regulation 4466, January 2001, (section 6.4): »Unless otherwise agreed upon, the overall availability of the automatic parking system is required to reach a minimum of 98% after 6 (six) months of operational time. (Calculation compliant to regulation VDI 3581).«

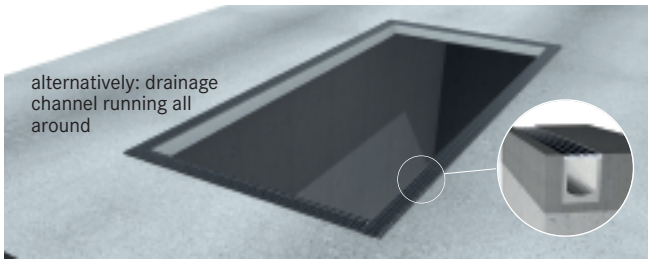
Dimensions

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm.

Above-ground drainage system (to be performed by the customer)

Either drainage channels or alternatively, downward slopes of at least 2% built outwards from the system are to be provided all around the lift cover plate or in front of the entrance to the car transfer section. No water collected on the surrounding surfaces must be allowed to enter the system by seeping over the pit edges.





Pit drainage system (to be performed by the customer)

We recommend providing gutter in the pit centre and connecting the gutter either to a gully or a drainage pit. If the pump sump is not accessible for manual drainage, the client must provide a pump on site to empty the pump sump. To prevent hazards for the ground water, we recommend giving the pit floor an oil-resistant coating as a means of protecting the environment. If this is to be connected to the sewage system, it is advisable to provide oil and/or petrol seperators.

Pallet drainage system (optional)

The vehicle pallets are provided with openings along the bottom side sections for water drainage. This water will drip sideways alongside the vehicles onto the pallet. On option we also have drainage gutters built in under the construction frame of each parking pallet. Water gutters lead to the rear of the pit and then on down under the pit flooring.

Maintenance Shaft

A maintenance shaft is required. Access to all levels must be given through stairs or ladders.

Shaft covering

1. The ground level lid is a welded construction (manufactured acc. to EN ISO13920 with the tolerance class C). Standard: stud plate covering. In the event of shell cover options, the covers can be adapted to the existing pavement coverings such as e.g. sand bed/marble slabs, sand bed/gravel slabs, topsoil/lawn, and so forth. Please contact WÖHR for details of maximum allowed loadings.
2. When lowered, the lid is even to floor level and can be driven over by cars (max. weight 2600 kg, wheel load max. 650 kg).
3. The motor will be covered with a stud plate. This plate is visible.
4. Within the area where the vertical lift moves, no doors, windows or other openings are possible at the building at a height of min. 3,0 m and a length of min. 7,0 m.

   If openings, doors or windows are there, than they must be closed permanently and secured against opening.

   If doors are required at this area, the doors must be locked by an electro-mechanical locking device and this locking must be integrated into the control of the parking system.

   The parking system will only work, if the door is closed and locked. The door maybe opened only if the lid is completely lowered.

Statics and construction

The steel structure serves as a frame-work for the lift system and the pallets. The steel structure is fastened to the floor with chemical anchors and shored-up sidewise against the external walls. This requires a concrete quality of C25/30. Information with regard to the statics in question can be obtained from WÖHR.