Data Sheet
WÖHR MULTIPARKER 750/760

The Multiparker 750/760 is suitable for construction cubes similar to a high rack made out of concrete, with tower or pit version. The cars are parked directly on the concrete slabs.

- Automatically operated parking system for 40 to more than 100 cars
- As tower and/or pit version provided up to 30 parking levels above each other
- Multiple row arrangement with up to 3 parking rows behind each other
- Well adaptable to individual project requirements
- Safe for user and cars (no narrow ramps, dark stairs, no damage caused by theft or vandalism)
- Customizable arrangement of transfer area
- No handling of empty pallets occurs to fast access times
- No ramps and driving lanes
- No costly illumination and ventilation necessary
- Different car heights possible, e.g. Vans, SUVs
- For car weight up to 2.5 t
- Easy operation with several control options, e.g. transponder chip or remote control
- Suitable for apartment- and office buildings and for public parking
- Following the idea of „Green Parking“

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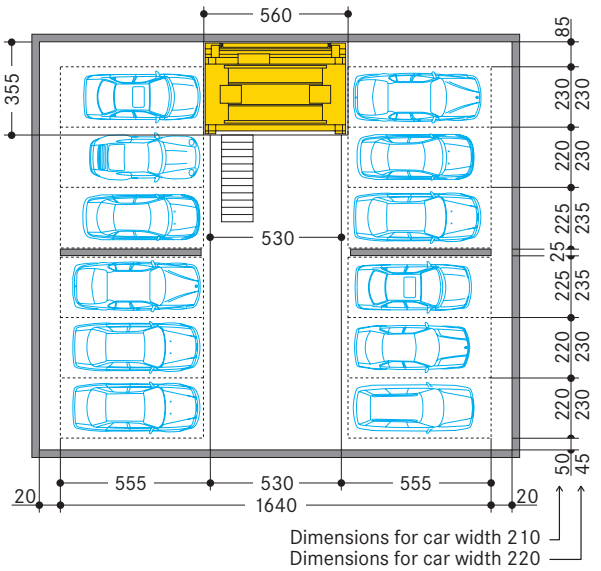
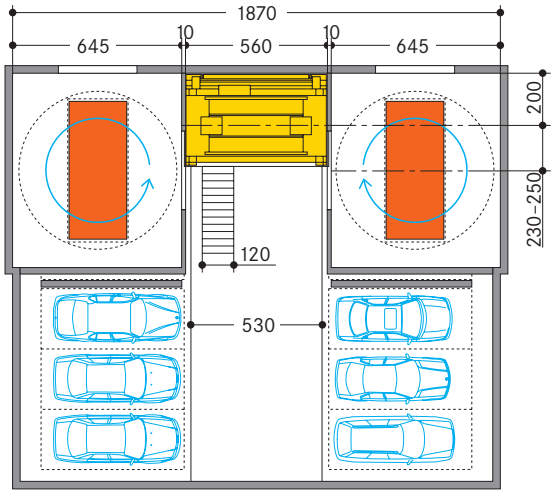
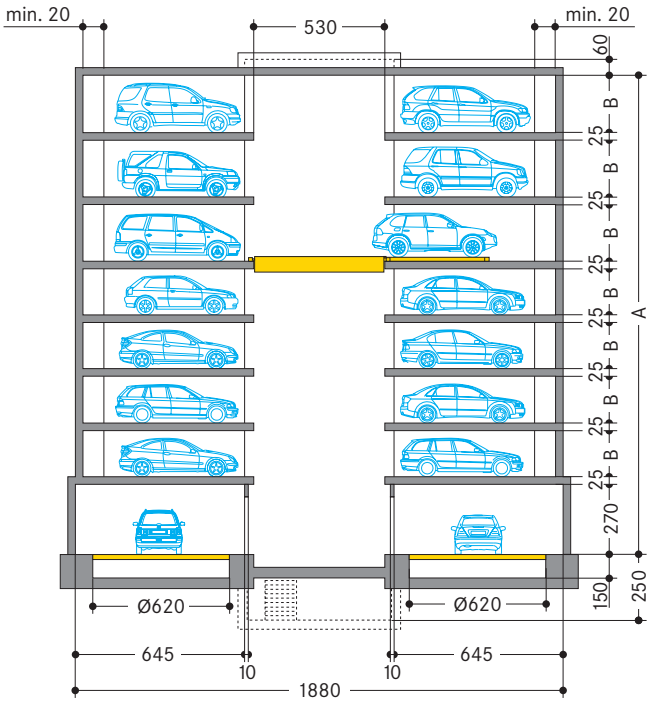
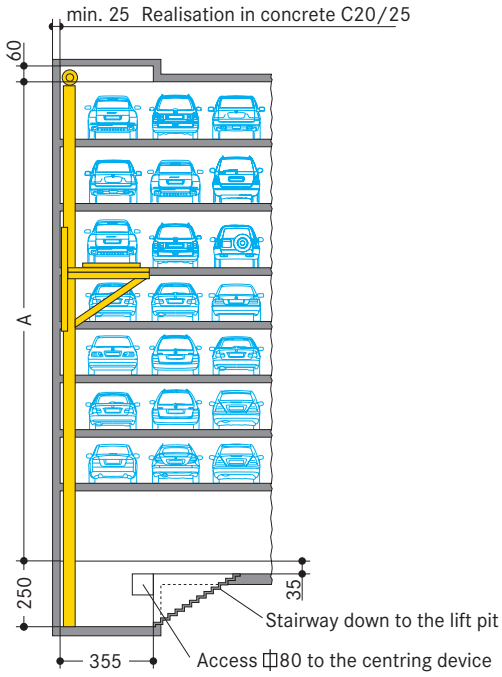
Multiparker 750 | Tower inside a building









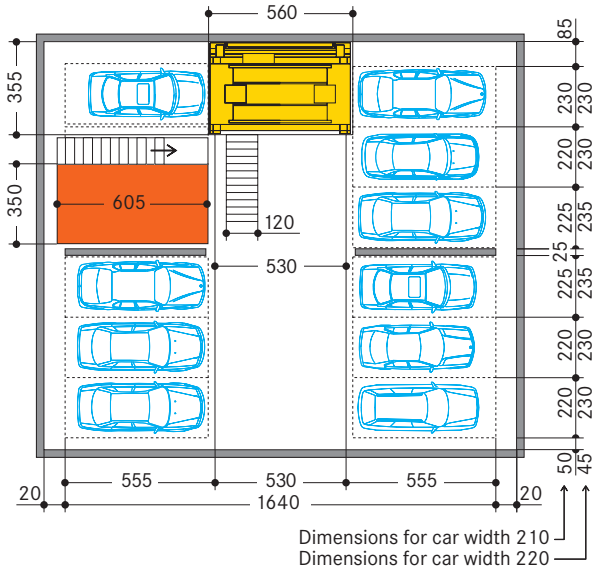
Parking levels	Dimension A for 160 cm high cars	Dimension A for 200 cm high cars
3	670	–
4	870	–
5	1070	–
6	1270	1470
7	1470	1710
8	1670	1950
9	1870	2190
10	2070	2430
11	2270	2670
12	2470	2910
13	2670	3150
14	2870	3390
15	3070	3630
16	3270	3870
17	3470	4110
18	3670	4350
19	3870	4590
20	4070	4830

Car height	Dimension B*
160	175
185	200
200	215

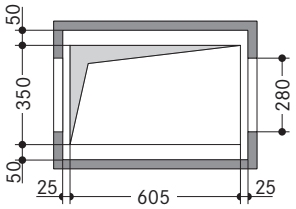
* **Please note:** The space required for sprinklers or other equipment must be added. Alternatively, sprinklers can also be installed exactly between the parking places.

Dimensions in cm

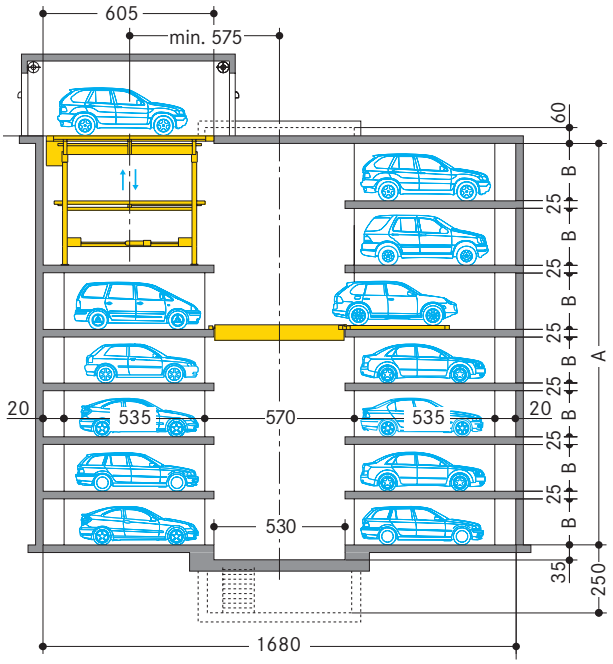
Multiparker 750 | Shaft

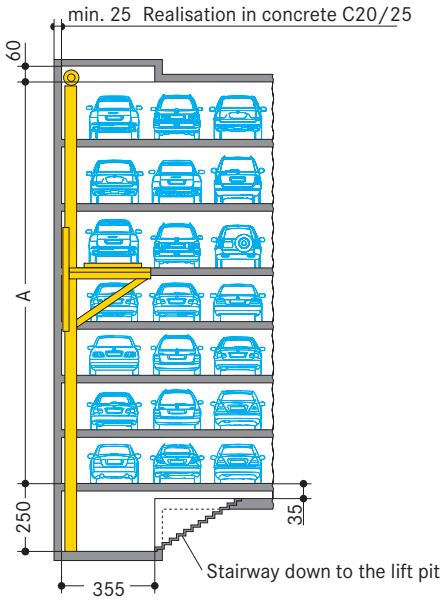


Transfer area



For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.





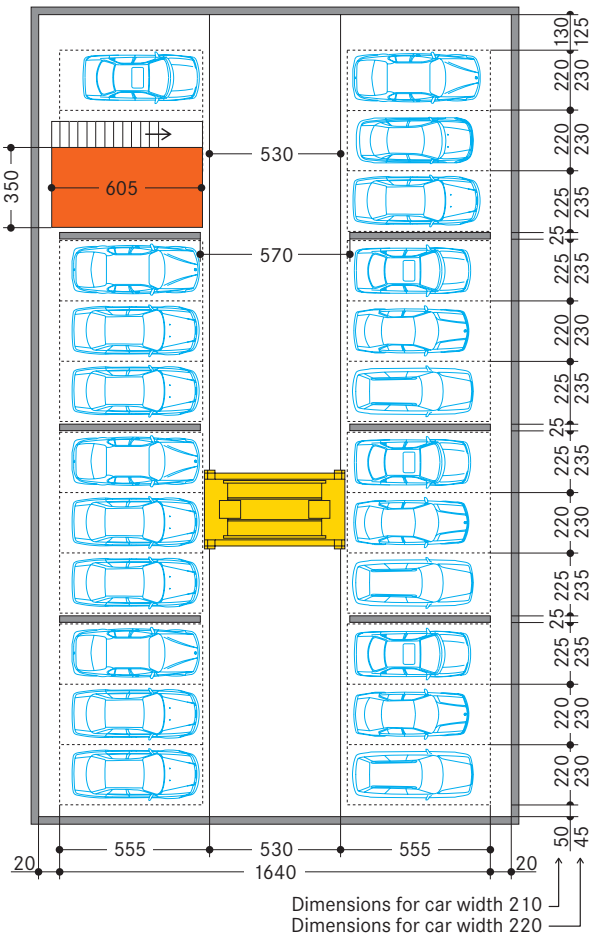
Dimensions in cm

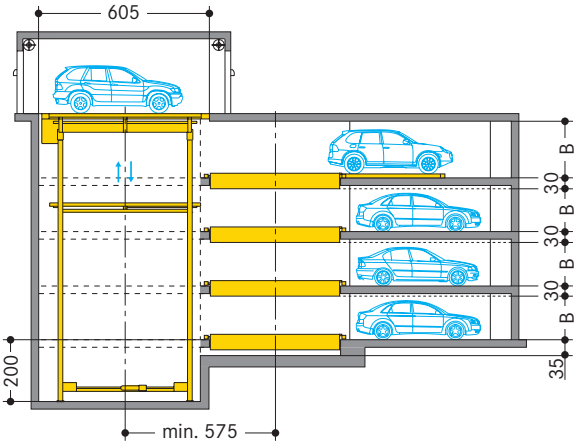
Parking levels	Dimension A for 160 cm high cars	Dimension A for 200 cm high cars
3	575	–
4	775	–
5	975	–
6	1175	1415
7	1375	1655
8	1575	1895
9	1775	2135
10	1975	2375
11	2175	2615
12	2375	2855
13	2575	3095
14	2775	3335
15	2975	3575
16	3175	3815
17	3375	4055
18	3575	4295
19	3775	4535
20	3975	4775

Car height	Dimension B*
160	175
185	200
200	215

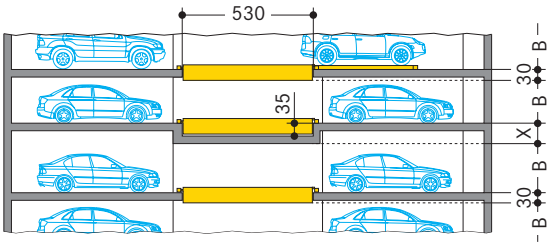
* **Please note:** The space required for sprinklers or other equipment must be added. Alternatively, sprinklers can also be installed exactly between the parking places.

Multiparker 760 | Shaft

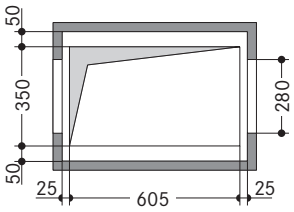




Intermediate slab



Transfer area



For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.

Dimensions in cm

Car height	Dimension B*
160	175
185	200
200	215

* **Please note:** The space required for sprinklers or other equipment must be added. Alternatively, sprinklers can also be installed exactly between the parking places.

Multiparker 750 | Evenness and tolerances

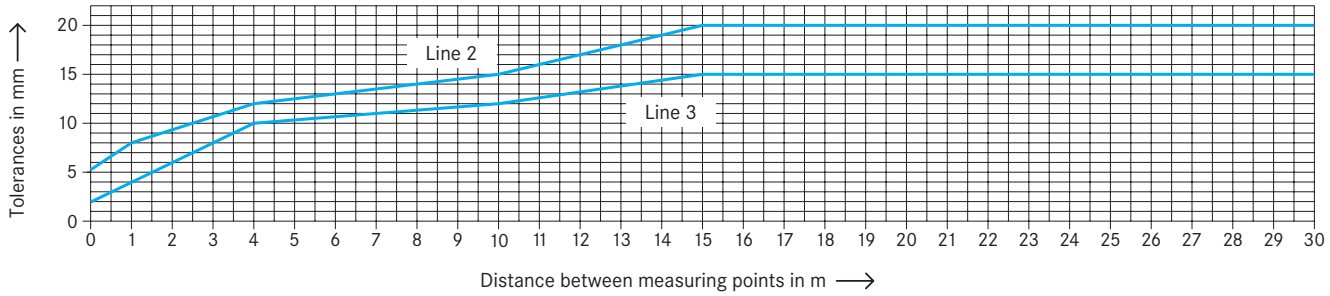
The evenness of the finished floors of all parking levels and transfer areas has to be in accordance with the below table in order to guarantee the proper function of the automatic parking system.

The tolerances of evenness as per below table, line 3, must not be exceeded. Therefore exact levelling of the ground by the client is essential.

Abstract from DIN 18202, table 3

Column	1	2	3	4	5	6
		Vertical measurements as limits in mm with measuring points distances in m to*				
line	reference	0,1	1	4	10	15
2	Unfinished floors, concrete bases and sub-bases ready for higher finish demands. i.e. for screed floors, paving tiles or slabs, compound floor paving and finished surfaces for industrial use such as warehouses.	5	8	12	15	20
3	Finished floors such as floor pavements serving as base for PVC tile and glued covering.	2	4	10	12	15

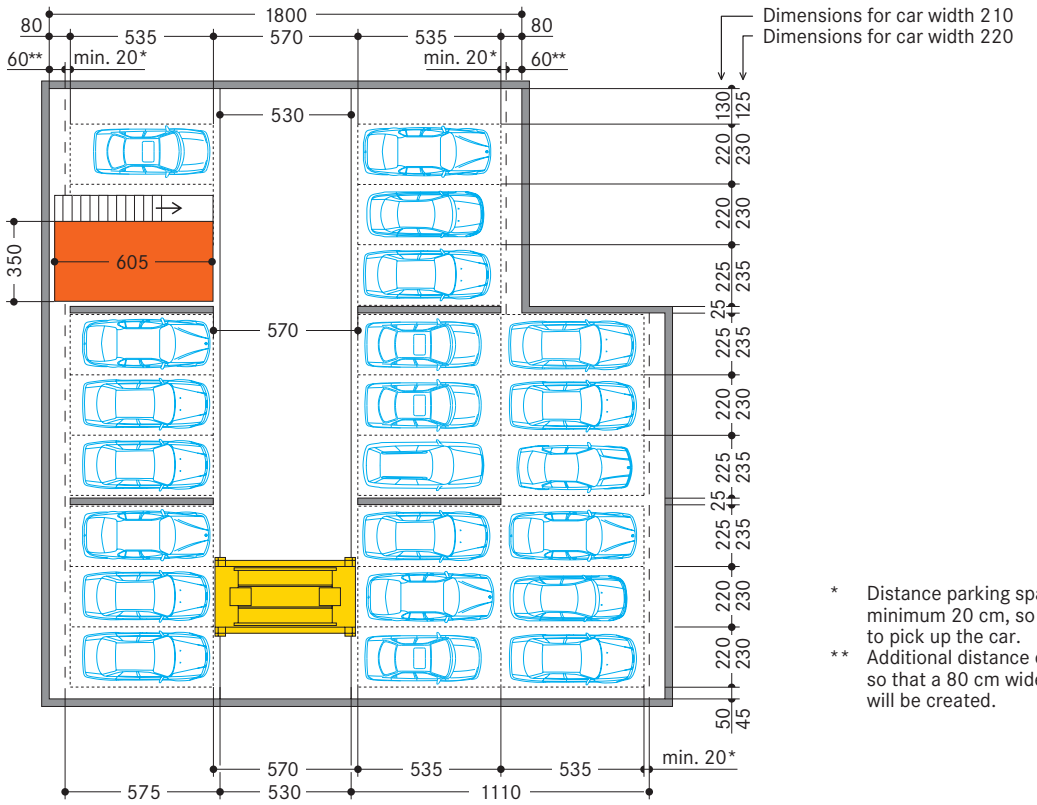
* Intermediate values are to be taken out the diagram and must be rounded-off to mm



Maintenance access and switch cabinet

Maintenance access as well a room for the switch cabinet (min. 2 x 5 m) is required (please check with WÖHR).

Multi-row arrangement



* Distance parking space to wall must be minimum 20 cm, so that the LAT is able to pick up the car.

** Additional distance of 60 cm is recommended, so that a 80 cm wide maintenance corridor will be created.

Grounding and Potential Equalisation

Customer has to provide a connecting outlet for grounding next to the control cabinet, because the Potential Equalisation Rail (PER) in the switch cabinet has to be connected by a preferably short cable with the grounding outlet. In the area of the lift structure the customer has to provide grounding outlets.

Control

The parking operation is initiated by inductive chip touched to the operating device, located at the entrance area. It is possible to connect it with an automatic cashier system. More than one system can be inter-linked by a master computer.

Statics and construction

The building structure serves as a frame-work for the lift system and the cars. The lift is fastened to the floor and sidewise to the external wall with chemical anchors.

The building structure requires a concrete quality of C25/30. Information with regard to the statics in question can be obtained from WÖHR.

Lighting (provided by 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.

Availability

If not agreed otherwise, the overall availability of the automatic parking system will reach at least 98% after a 6-month operation time.

Certificate of conformity

The parking systems we offer fulfil the requirements of the EC-Machinery Directive 2006/42/EC in general and the requirements of DIN EN 14010 in particular.

Fire protection (provided by customer)

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

Dimensions

All dimensions are minimum finished dimensions. Allowance must also be made for tolerances caused by the requirements of local builders. Dimensions are given in cm.

Sound insulation

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 30dB(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 57dB(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.

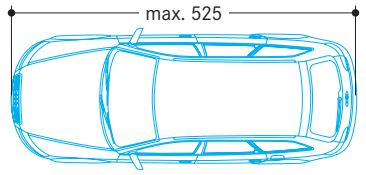
Ventilation/Environmental conditions (provided by customer)

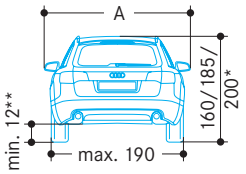
The electrical control elements are in accordance with EN 60204-1 and the mechanical are provided for a temperature range +5 – +40 degrees Celsius. Other environmental conditions would require a special consideration.
A ventilation system is required by the client to provide continuous exchange of air, to effect a reduction in the level of atmospheric humidity, prevent condensation, remove moisture carried by vehicles (rain, snow, ice or the like) and in accordance with Health and Safety at Work Regulations.

Notes

We reserve the right to make design changes. We reserve the right to change construction details on the basis of technological progress and in the light of environment regulations.

Max. car dimensions





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

Pallet width	Dimension A
220	210
230	220

Car weight max. 2500 kg, wheel load max. 625 kg.

These car dimensions are valid for the building dimensions as mentioned. If building dimensions are adjusted, other car dimensions are possible.