

Data Sheet

WÖHR MULTIPARKER 750/760

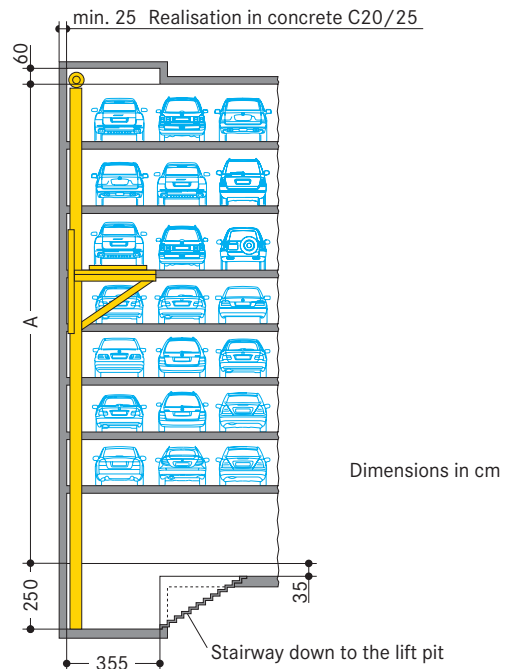
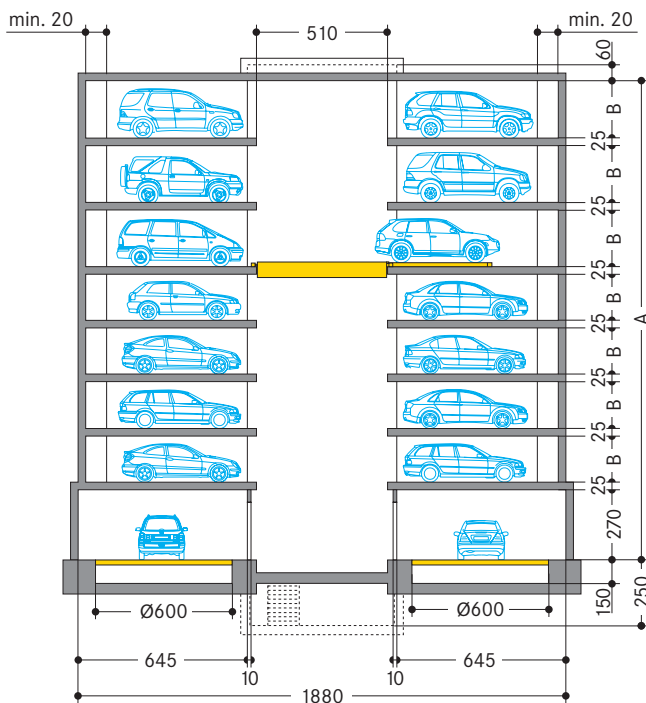
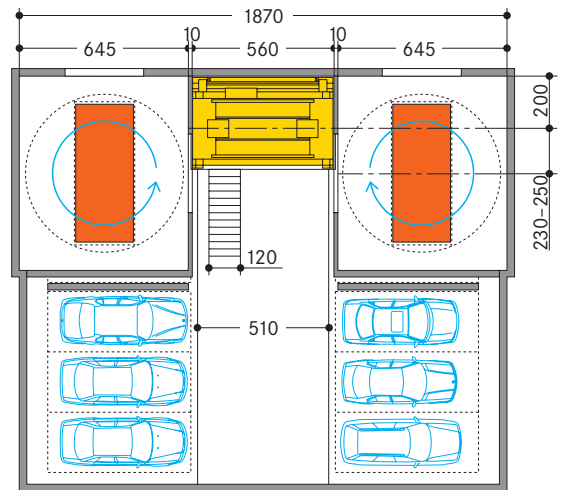
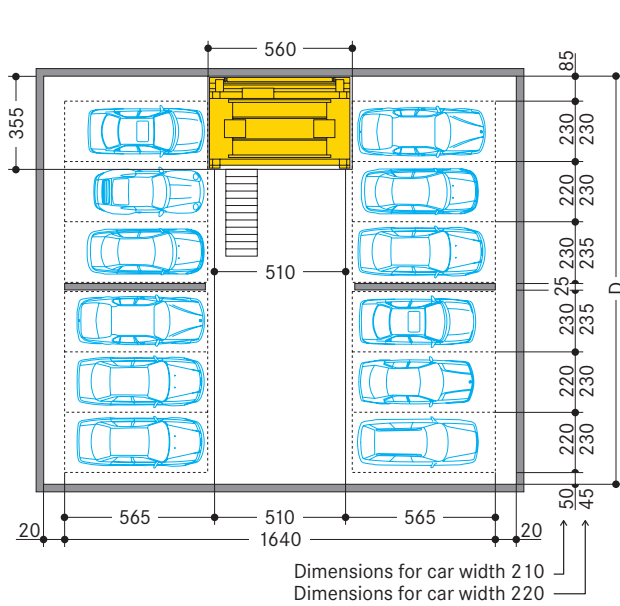


The Multiparker 750/760 is suitable for construction cubes similar to a high rack made out of concrete, with tower or pit version. The cars are parked directly on the concrete slabs.

- 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“



Multiparker 750 | Tower inside a building



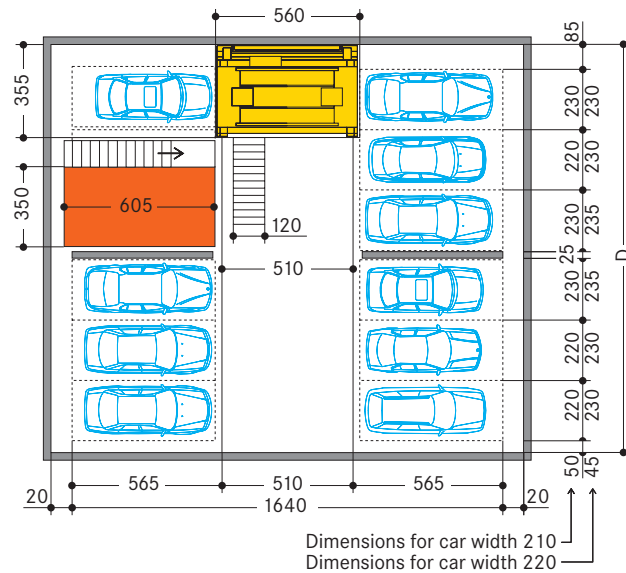
Parking levels	Dimension A for 160 cm high cars	Dimension A for 200 cm high cars
3	680	-
4	885	-
5	1090	-
6	1295	1535
7	1500	1780
8	1705	2025
9	1910	2270
10	2115	2515
11	2320	2760
12	2525	3005
13	2730	3250
14	2935	3495
15	3140	3740
16	3345	3985
17	3550	4230
18	3755	4475
19	3960	4720
20	4165	4965

Parking places per level*	Length D (car width 210 cm)	Length D (car width 220 cm)
6	805	820
8	1045	1085
10	1265	1315
12	1485	1545
14	1750	1810
16	1970	2040
18	2190	2270
20	2455	2535
22	2675	2765
24	2895	2995
26	3160	3260
28	3380	3490
30	3600	3720
32	3865	3985
34	4085	4215

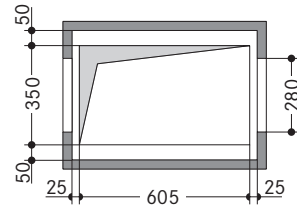
Car height	Dimension B
160	180
185	205
200	220

* The number of parking places is dependent upon the quantity of transfer areas and their arrangement

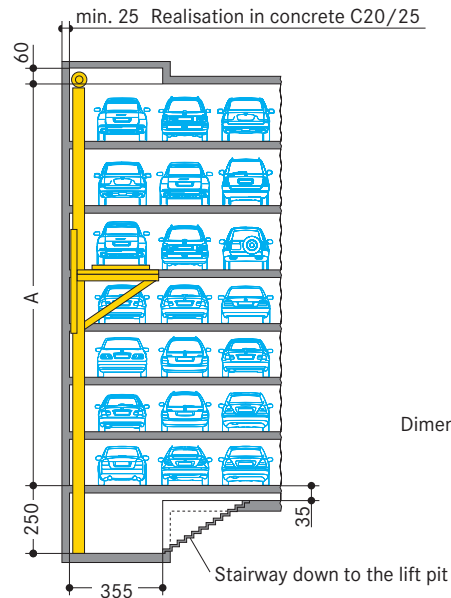
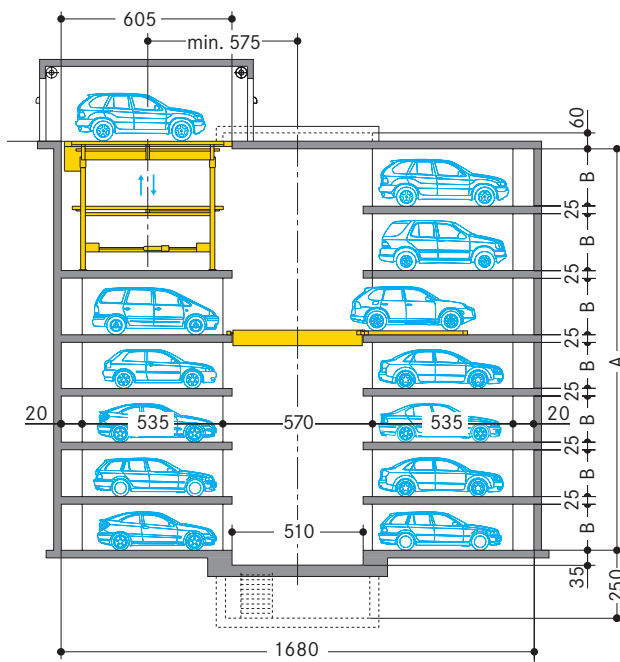
Multiparker 750 | Shaft



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

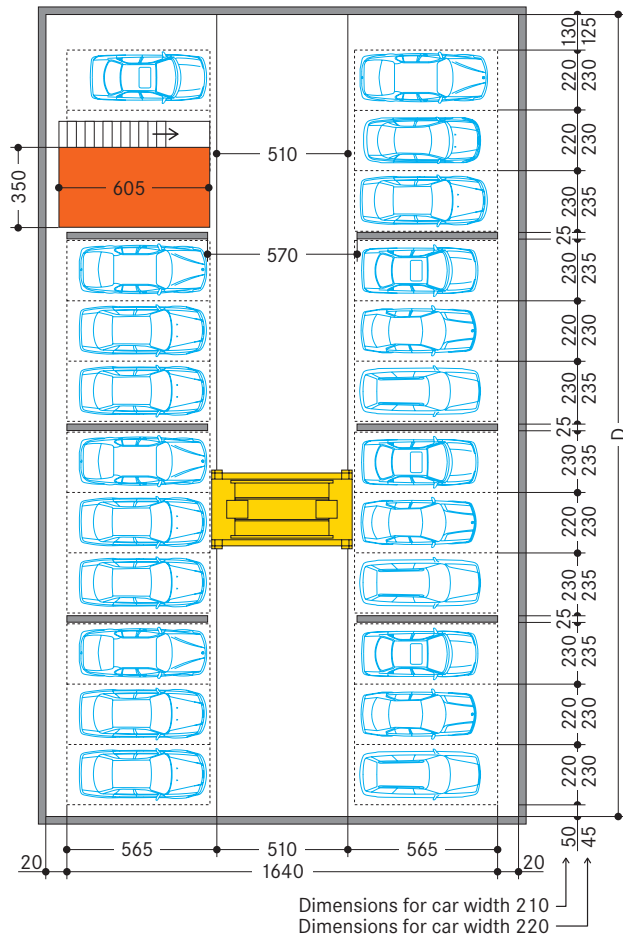
Parking levels	Dimension A for 160 cm high cars	Dimension A for 200 cm high cars
3	590	-
4	795	-
5	1000	-
6	1205	1445
7	1410	1690
8	1615	1935
9	1820	2180
10	2025	2425
11	2230	2670
12	2435	2915
13	2640	3160
14	2845	3405
15	3050	3650
16	3255	3895
17	3460	4140
18	3665	4385
19	3870	4630
20	4075	4850

Parking places per level*	Length D (car width 210 cm)	Length D (car width 220 cm)
6	805	820
8	1045	1085
10	1265	1315
12	1485	1545
14	1750	1810
16	1970	2040
18	2190	2270
20	2455	2535
22	2675	2765
24	2895	2995
26	3160	3260
28	3380	3490
30	3600	3720
32	3865	3985
34	4085	4215

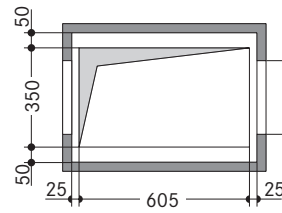
Car height	Dimension B
160	180
185	205
200	220

* The number of parking places is dependent upon the quantity of transfer areas and their arrangement

Multiparker 760 | Shaft

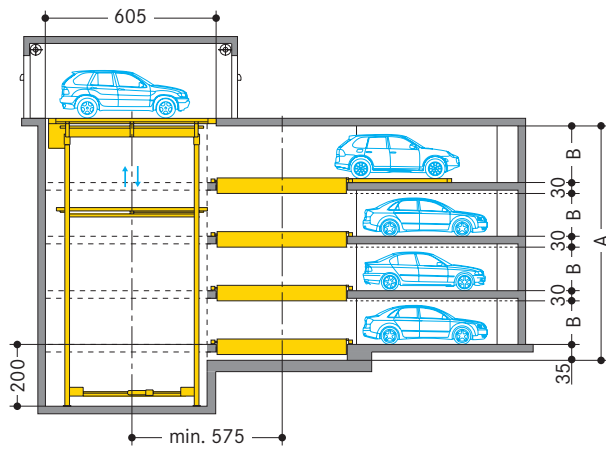


Transfer area



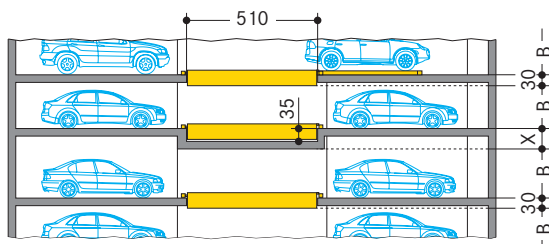
For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.

Parking levels	Dimension A for 160 cm high cars	Dimension A for 200 cm high cars
1	230	270
2	445	525
3	660	780
4	875	1035
5	1090	1290
6	1305	1545



Parking places per level*	Length D (car width 210 cm)	Length D (car width 220 cm)
20	2735	2805
22	2955	3035
24	3220	3300
26	3440	3530
28	3660	3760
30	3925	4025
32	4145	4255
34	4365	4485
36	4630	4750
38	4850	4980
40	5070	5210
42	5335	5475
44	5555	5705
46	5775	5935
48	6040	6200
50	6260	6430
52	6480	6665
54	6745	6925
56	6965	7155
58	7185	7385
60	7450	7650
62	7670	7880
64	7890	8110
66	8155	8375
68	8375	8605
70	8595	8835

Intermediate slab



Car height	Dimension B
160	180
185	205
200	220

Dimensions in cm

* The number of parking places is dependent upon the quantity of transfer areas and their arrangement

Multiparker 750 | Evenness and tolerances

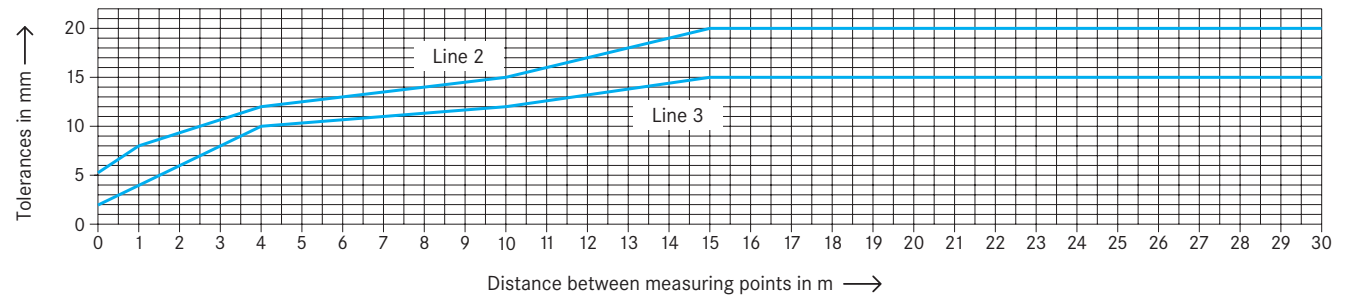
The evenness of the finished floors of all parking levels and transfer areas has to be in accordance with the below table in order to guarantee the proper function of the automatic parking system.

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
line	reference	Vertical measurements as limits in mm with measuring points distances in m to*				
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.	0,1	1	4	10	15
3	Finished floors such as floor pavements serving as base for PVC tile and glued covering.	5	8	12	15	20

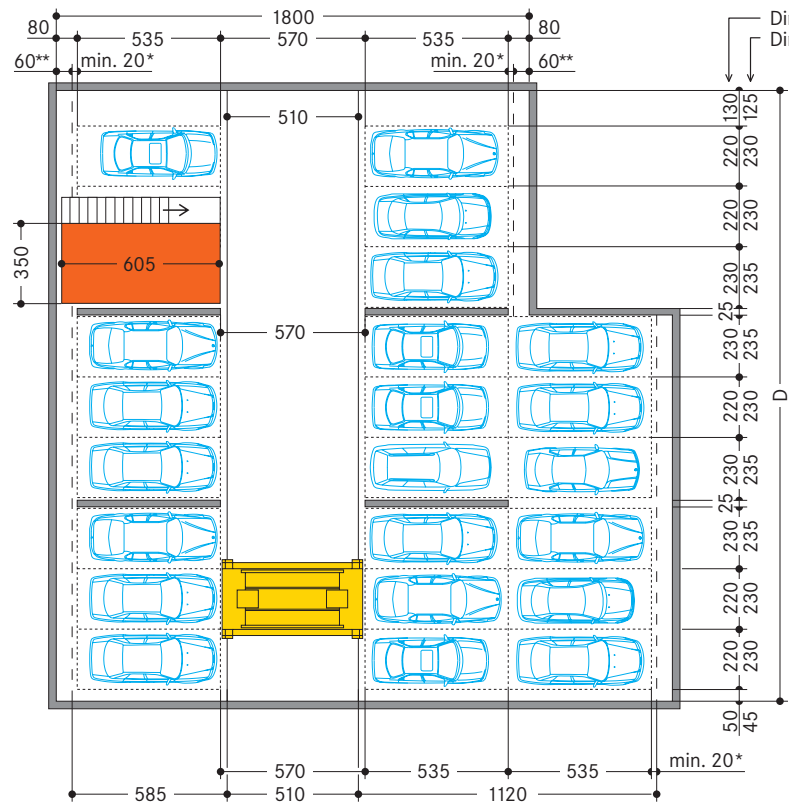
* Intermediate values are to be taken out the diagram and must be rounded-off to mm



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.

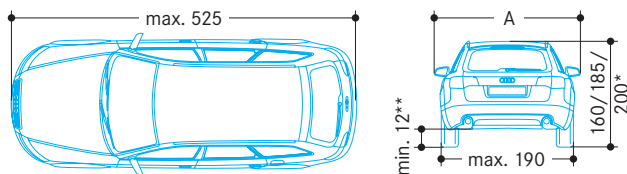
■ Fire protection (provided by customer)

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.

■ 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

■ 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.

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.