# Data Sheet
# WÖHR MULTIPARKER 710/720/730

**Please observe the separate Technical Notes!**

The Multiparker utilizes clever and smart the available surface and provides parking space with different variants.

- As tower and/or pit version
- Automatically operated parking systems for 10 to more than 100 cars
- Variable system length available
- Multiple row arrangement with up to 2 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
- Very fast access time by use of a quick-change pallet system
- 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, higher loads are possible after consultation with WÖHR
- 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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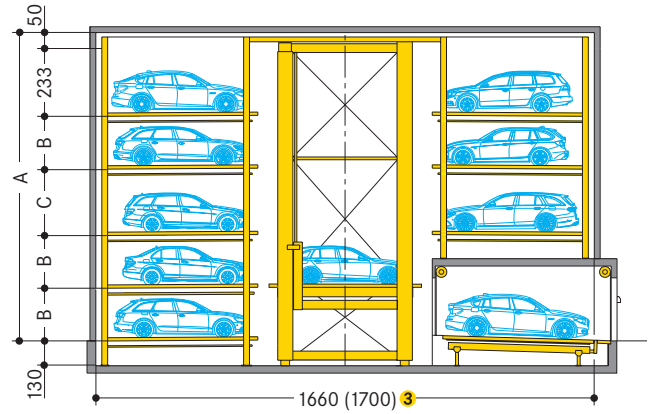
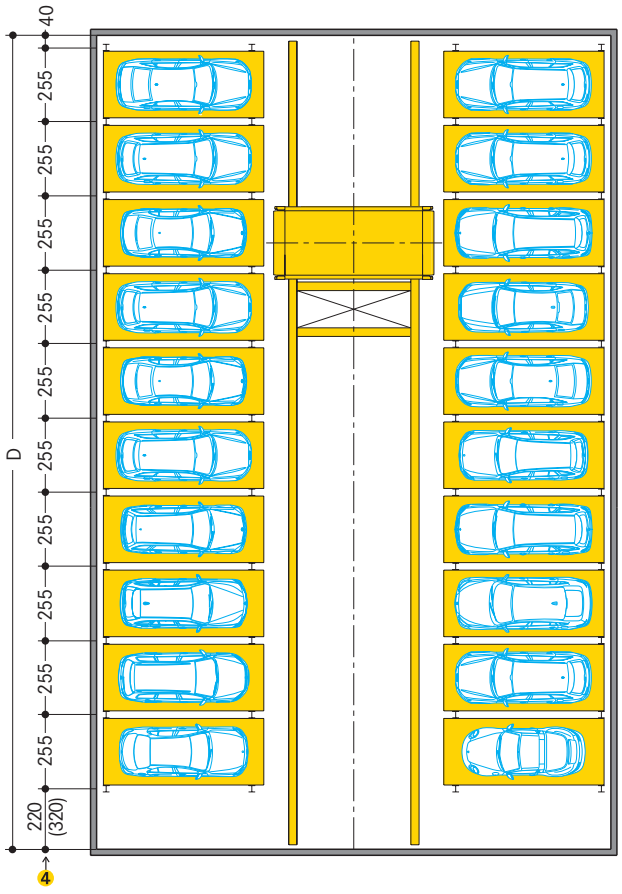
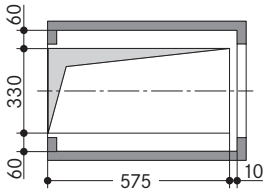
## Multiparker 710 | Tower system for 2–8 parking levels

- Parking system for 2–8 parking levels as tower variant
- Linear expansion variable (see dimension D on table below)
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|---|---|---|
| 2 | 476 | 516 |
| 3 | 669 | 749 |
| 4 | 882 | 1002 |
| 5 | 1075 | 1235 |
| 6 | 1268 | 1468 |
| 7 | 1481 | 1721 |
| 8 | 1674 | 1954 |

| Car height 5 | Dimension B | Dimension C |
|---|---|---|
| 160 | 193 | 213 |
| 200 | 233 | 253 |

| Parking places per level 6 | Pallet width 230 Grid width 255 cm Length D | |
|---|---|---|
| 12 | 1790 | |
| 14 | 2045 | |
| 16 | 2300 | |
| 18 | 2555 | |
| 20 | 2810 | |
| 22 | 3065 | |
| 24 | 3320 | |
| 26 | 3575 | |
| 28 | 3830 | |
| 30 | 4085 | |
| 32 | 4340 | |
| 34 | 4595 | |
| 36 | 4850 | |
| 38 | 5105 | |
| 40 | 5360 | |

1 Dimensions in cm.

2 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.

3 Dimensions in brackets for storage and retrieval unit with turning device.

4 Dimensions for pallet width 230.

5 Other car heights are possible. Please contact WÖHR.

6 The number of parking places depends on number and arrangement of transfer areas.

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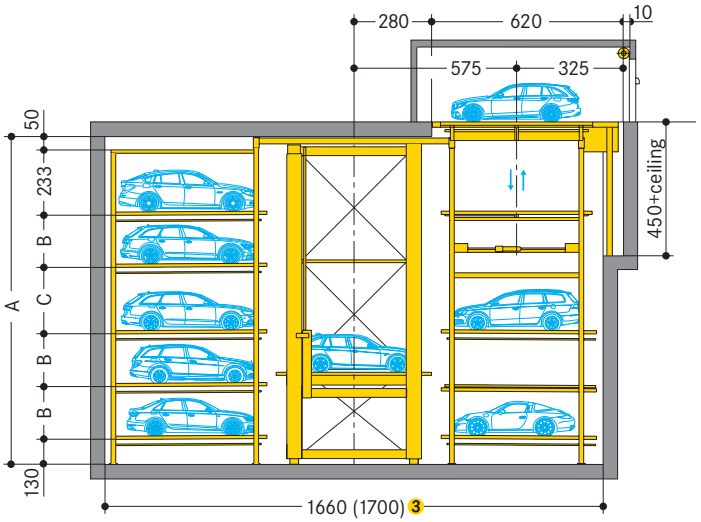
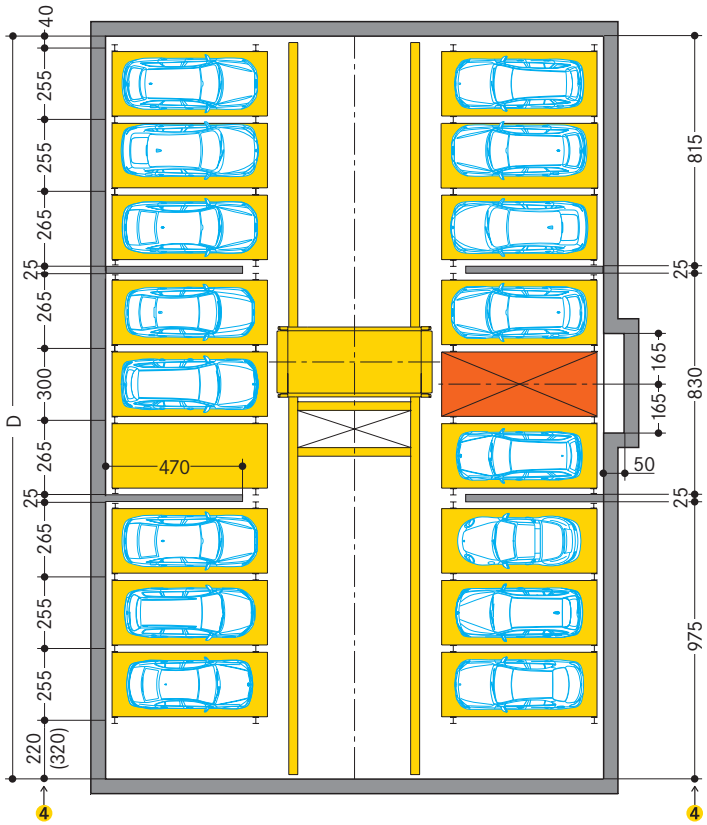
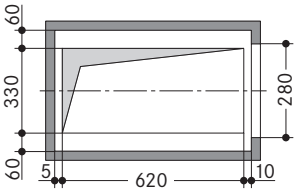
## Multiparker 710 | Shaft system for 2–8 parking levels

- Parking system for 2–8 parking levels as shaft variant
- Linear expansion variable (see dimension D on table below)
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|---|---|---|
| 2 | 606 | 646 |
| 3 | 799 | 879 |
| 4 | 1012 | 1132 |
| 5 | 1205 | 1365 |
| 6 | 1398 | 1598 |
| 7 | 1611 | 1851 |
| 8 | 1804 | 2084 |

| Car height 5 | Dimension B | Dimension C |
|---|---|---|
| 160 | 193 | 213 |
| 200 | 233 | 253 |

| Parking places per level 6 | Pallet width 230 Grid width 255 cm Length D 7 | |
|---|---|---|
| 12 | 1880 | |
| 14 | 2180 | |
| 16 | 2435 | |
| 18 | 2690 | |
| 20 | 2990 | |
| 22 | 3245 | |
| 24 | 3500 | |
| 26 | 3800 | |
| 28 | 4055 | |
| 30 | 4310 | |
| 32 | 4610 | |
| 34 | 4865 | |
| 36 | 5120 | |
| 38 | 5420 | |
| 40 | 5675 | |
| 42 | 5930 | |

1 Dimensions in cm.

2 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.

3 Dimensions in brackets for storage and retrieval unit with turning device.

4 Dimensions for pallet width 230.

5 Other car heights are possible. Please contact WÖHR.

6 The number of parking places depends on number and arrangement of lifts.

7 All specified dimensions of length D are examples only and depend on width and number of partitions walls.

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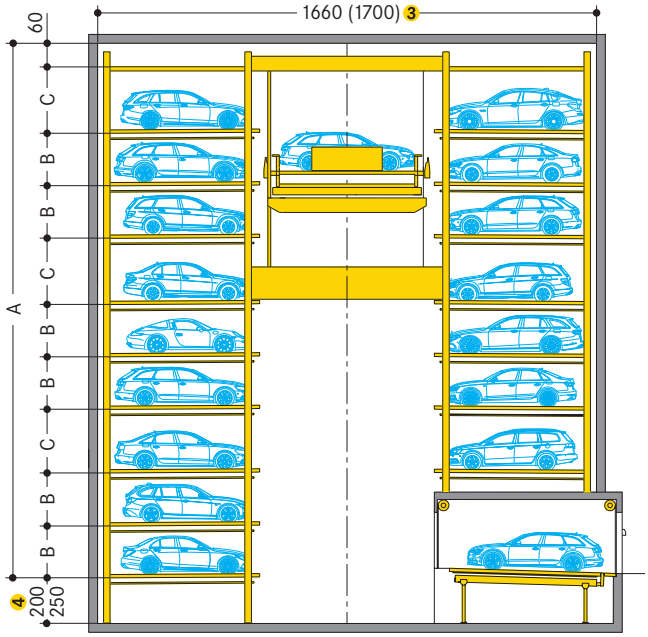
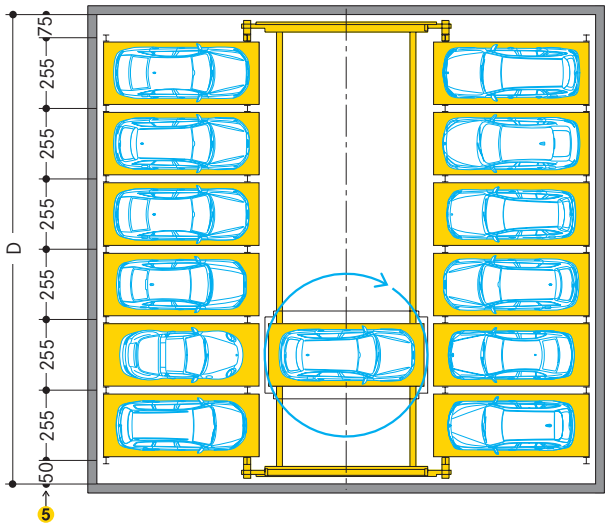
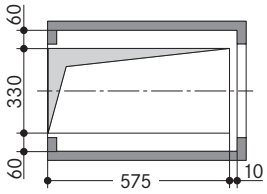
## Multiparker 720 | Tower system for 4–20 parking levels

- Parking system for 4-20 parking levels as tower variant
- Linear expansion limited to max. 6 parking bays per row
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|---|---|---|
| 4 | 852 | 1012 |
| 5 | 1045 | 1245 |
| 6 | 1238 | 1478 |
| 7 | 1451 | 1731 |
| 8 | 1644 | 1964 |
| 9 | 1837 | 2197 |
| 10 | 2050 | 2450 |
| 11 | 2243 | 2683 |
| 12 | 2436 | 2916 |
| 13 | 2649 | 3169 |
| 14 | 2842 | 3402 |
| 15 | 3035 | 3635 |
| 16 | 3248 | 3888 |
| 17 | 3441 | 4121 |
| 18 | 3634 | 4354 |
| 19 | 3847 | 4607 |
| 20 | 4040 | 4840 |

| Car height 6 | Dimension B | Dimension C |
|---|---|---|
| 160 | 193 | 213 |
| 200 | 233 | 253 |

| Parking places per level 7 | Pallet width 230 Grid width 255 cm Length D | |
|---|---|---|
| 6 | 890 | |
| 8 | 1145 | |
| 10 | 1400 | |
| max. 12 | 1655 | |

1 Dimensions in cm.

2 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.

3 Dimensions in brackets for storage and retrieval unit with turning device.

4 Dimension 200 cm apply to 4 or 8 parking places per level. Dimension 250 cm apply to 10 or 12 parking places per level.

5 Dimensions for pallet width 230.

6 Other car heights are possible. Please contact WÖHR.

7 The number of parking places depends on number and arrangement of transfer areas.

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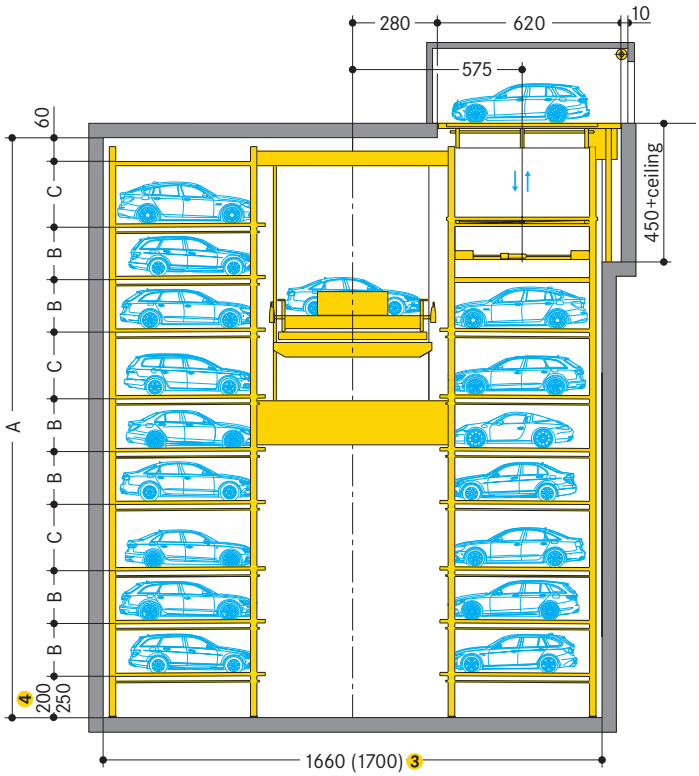
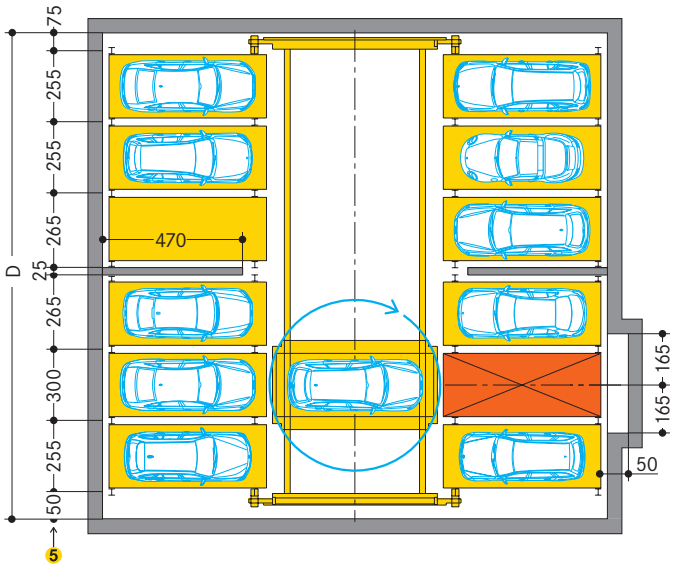
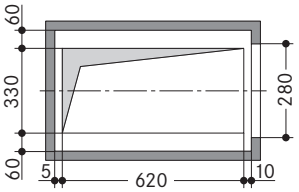
## Multiparker 720 | Shaft system

- Linear expansion limited to max. 6 parking bays per row
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A 6 for 160 cm high cars | Dimension A 6 for 200 cm high cars |
|---|---|---|
| 1 | 453 | 493 |
| 2 | 664 | 726 |
| 3 | 839 | 959 |
| 4 | 1052 | 1212 |
| 5 | 1245 | 1445 |
| 6 | 1438 | 1678 |
| 7 | 1651 | 1931 |
| 8 | 1844 | 2164 |
| 9 | 2037 | 2397 |
| 10 | 2250 | 2650 |
| 11 | 2443 | 2883 |
| 12 | 2636 | 3116 |

| Car height 7 | Dimension B | Dimension C |
|---|---|---|
| 160 | 193 | 213 |
| 200 | 233 | 253 |

| Parking places per level 8 | Pallet width 230 Grid width 255 cm Length D 9 | |
|---|---|---|
| 6 | 935 | |
| 8 | 1235 | |
| 10 | 1490 | |
| max. 12 | 1745 | |

1. Dimensions in cm.
2. 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.
3. Dimensions in brackets for storage and retrieval unit with turning device.
4. Dimension 200 cm apply to 6 or 8 parking places per level. Dimension 250 cm apply to 10 or 12 parking places per level.
5. Dimensions for pallet width 230.
6. All mentioned dimensions apply to 6 or 8 parking places per level. If 10 or 12 parking places per level are planned, these dimensions are to be increased by 50 cm.
7. Other car heights are possible. Please contact WÖHR.
8. The number of parking places depends on number and arrangement of transfer areas.
9. All specified dimensions of length D are examples only and depend on width and number of partitions walls.

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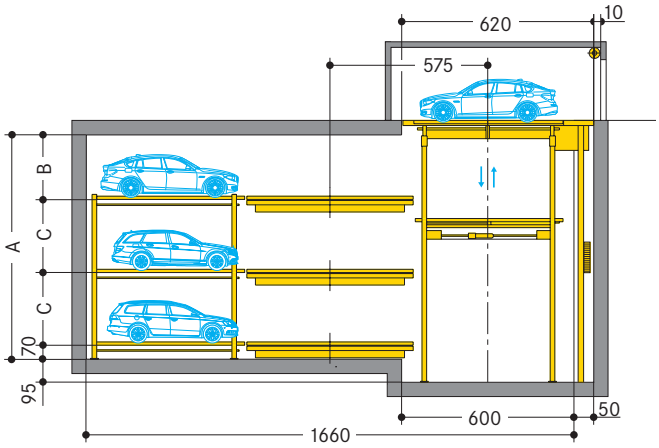
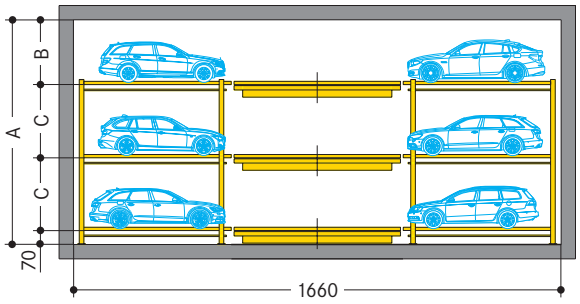
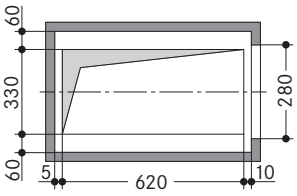
## Multiparker 730 | Shuttle/Lift system with steel structure

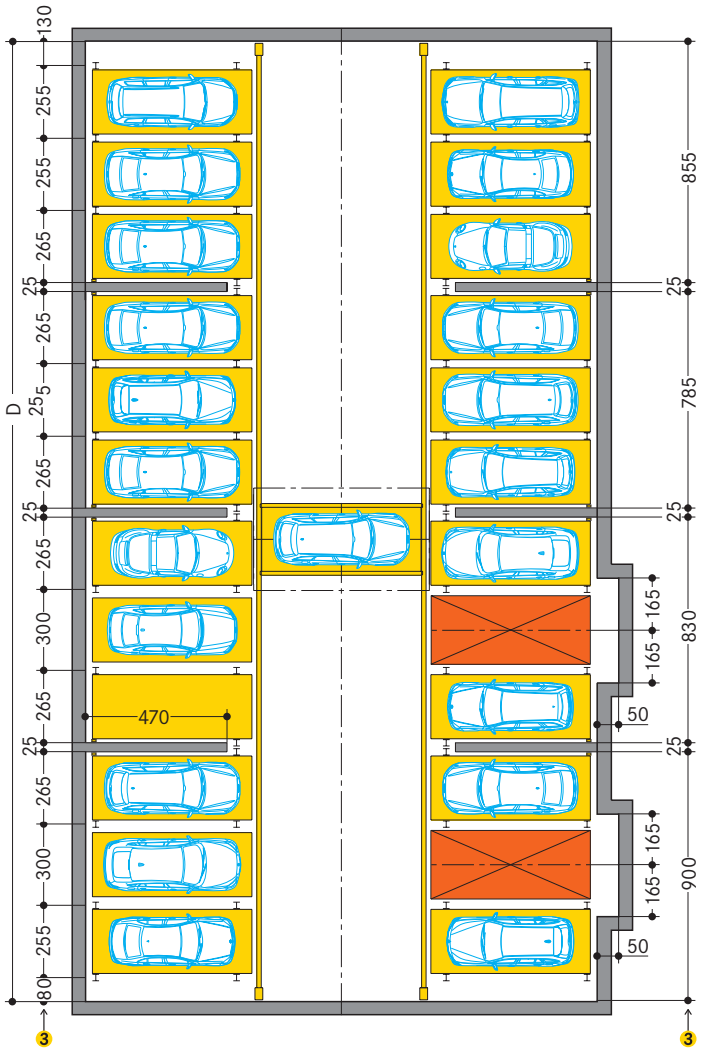
- Parking system for a high number of parking spaces and a high throughput
- Separate shuttle in each parking level
- Each parking level connected with entrance/exit level by lifting unit
- Linear expansion variable (see dimension D on table below)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device in the transfer area possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|---|---|---|
| 2 | 465 | 545 |
| 3 | 690 | 810 |
| 4 | 915 | 1075 |
| 5 | 1140 | 1340 |

| Car height 4 | Dimension B | Dimension C |
|---|---|---|
| 160 | 225 | 170 |
| 200 | 265 | 210 |

| Parking places per level 5 | Pallet width 230 Length D 6 | |
|---|---|---|
| 22 | 3495 | |
| 24 | 3795 | |
| 26 | 4050 | |
| 28 | 4305 | |
| 30 | 4605 | |
| 32 | 4860 | |
| 34 | 5115 | |
| 36 | 5415 | |
| 38 | 5670 | |
| 40 | 5925 | |
| 42 | 6225 | |
| 44 | 6480 | |
| 46 | 6735 | |
| 48 | 7035 | |
| 50 | 7290 | |

1 Dimensions in cm.

2 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.

3 Dimensions for pallet width 230.

4 Other car heights are possible. Please contact WÖHR.

5 The number of parking places depends on number and arrangement of the lift.

6 All specified dimensions of length D are examples only and depend on width, number of partitions walls and number of lifts.

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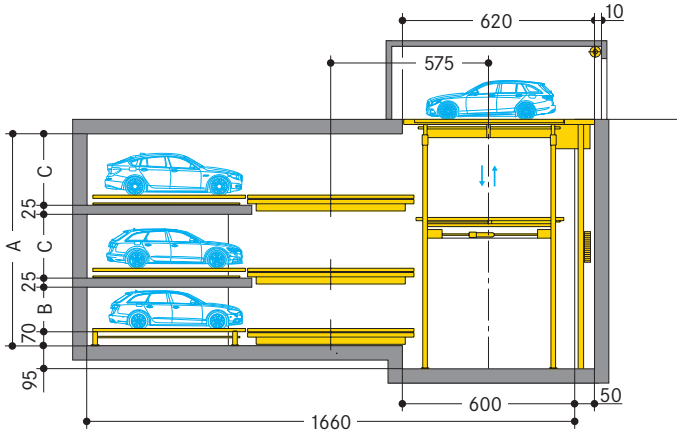
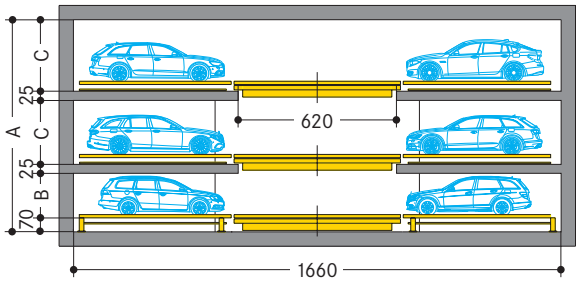
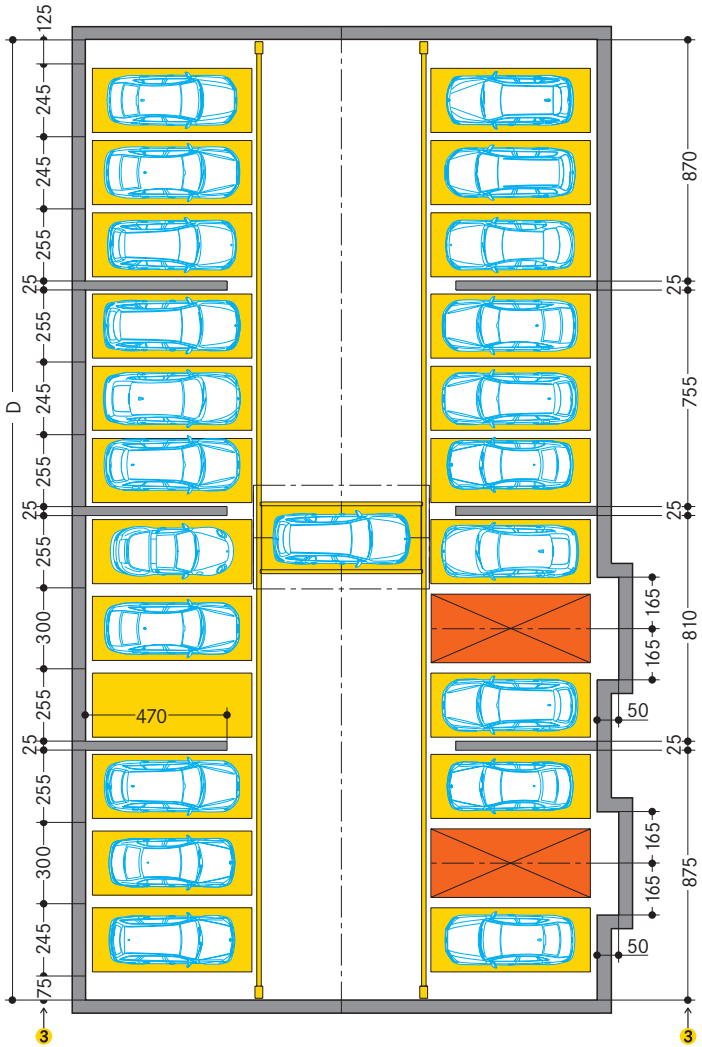
## Multiparker 730 | Shuttle/Lift system with intermediate ceiling

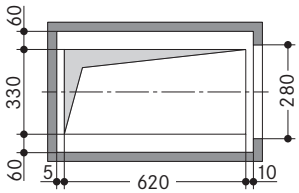
- Parking system for a high number of parking spaces and a high throughput
- Separate shuttle in each parking level
- Each parking level connected with entrance/exit level by lifting unit
- Linear expansion variable (see dimension D on table below)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device in the transfer area possible (option)




Transfer area (dimensions without turning device) 2




| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|---|---|---|
| 2 | 471 | 551 |
| 3 | 704 | 824 |
| 4 | 937 | 1097 |
| 5 | 1170 | 1370 |

| Car height 4 | Dimension B | Dimension C |
|---|---|---|
| 160 | 193 | 213 |
| 200 | 208 | 248 |

| Parking places per level 5 | Pallet width 230 Length D 6 | |
|---|---|---|
| 22 | 3385 | |
| 24 | 3675 | |
| 26 | 3920 | |
| 28 | 4165 | |
| 30 | 4455 | |
| 32 | 4700 | |
| 34 | 4945 | |
| 36 | 5235 | |
| 38 | 5480 | |
| 40 | 5725 | |
| 42 | 6015 | |
| 44 | 6260 | |
| 46 | 6505 | |
| 48 | 6795 | |
| 50 | 7040 | |

1 Dimensions in cm.

2 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.

3 Dimensions for pallet width 230.

4 Other car heights are possible. Please contact WÖHR.

5 The number of parking places depends on number and arrangement of the lift.

6 All specified dimensions of length D are examples only and depend on width, number of partitions walls and number of lifts.

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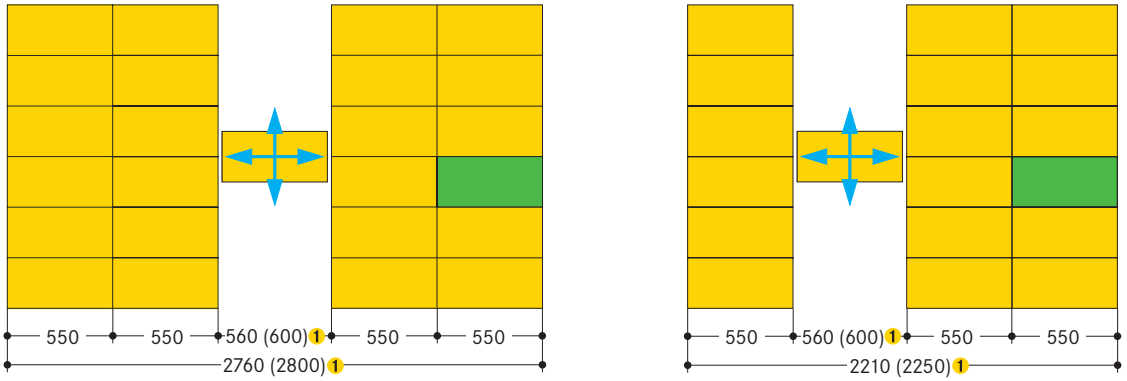
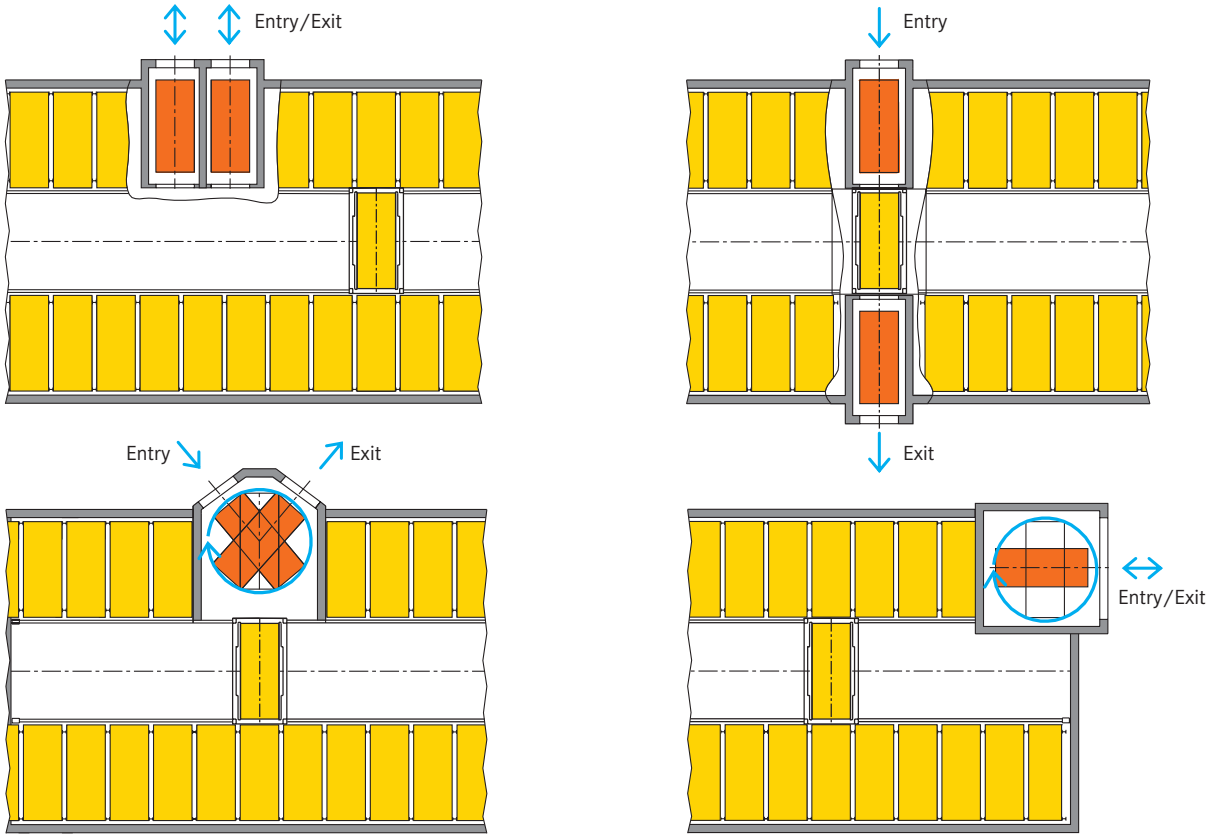
## Multi-row arrangement




The multi-row arrangement allows an optimum utilisation of the available space and/or land area and saves civil engineering costs, particularly with the shaft variant.

1 Dimensions in brackets for storage and retrieval unit with turning device.

## Possible arrangements of transfer area




The arrangement of the transfer area is flexible. The optimum arrangement is always in the system center which has the shortest access times. Depending on the need and kind of utilisation, the number of the transfer areas can be adapted.

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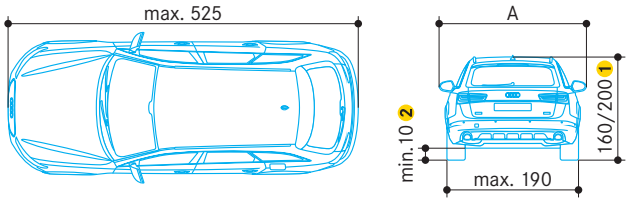
## Maintenance access and switch cabinet

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

## Max. car dimensions




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

2 Clearance underneath the gear case

| Pallet width | Dimension A |
|---|---|
| 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.

**For parking systems with EV charging options, WÖHR recommends the use of wider pallets.**

**Attention: Clear installation dimensions change accordingly.**

## Passenger car registrations in Germany*

Orientation aid for height dimensions: With a system type, which for example covers cars up to 200 cm in height, 98.98 % of all cars registered new in 2022 in Germany can be parked.

| Height | Examples of models | Passenger car registrations |
|---|---|---|
| 156,2 | VW ID.3 | 63,62 % — up to 160 cm* |
| 157,8 | BMW i3 | |
| 158,5 | Audi Q3 | |
| 162,1 | BMW X4 | 91,25 % — up to 170 cm* |
| 168,1 | Skoda Kodiaq | |
| 169,4 | Peugeot 5008 | |
| 177,6 | Volvo XC90 | 93,76 % — up to 180 cm* |
| 177,8 | Ford Explorer | |
| 179,7 | Mercedes Benz GLE | |
| 184,8 | Renault Kangoo | 97,29 % — up to 190 cm* |
| 187,0 | Toyota Land Cruiser | |
| 189,5 | Opel Zafira | |
| 193,8 | VW ID.Buzz | 98,98 % — up to 200 cm* |
| 196,9 | Mercedes Benz G | |
| 199,4 | VW Caravelle | |

* Due to different equipment, vehicles of the same design may have different heights. The maximum heights have been taken into account.
Source: German Federal Motor Transport Authority, 2022 (evaluation for motor vehicles registered in Germany for passenger transport with up to 9 seats).

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