All space requirements are minimum finished dimensions.

Tolerances for space requirements.

Dimensions in cm.

EB (single platform) = 3 vehicles
DB (double platform) = 6 vehicles

Suitable for

Standard passenger cars:
For PW 2.3 m. according to clearance and maximal surface load.

Garage without door (basement garage)

Dimensions

Clearance profile

Width
Weight
Wheel load

Standard
190 cm
max. 2000 kg
max. 500 kg

Special
190 cm
max. 2500 kg
max. 625 kg

60 cm wide yellow-black marking must be applied by the customer to the edge of the pit in the entry area to mark the danger zone (see "load plan" page 4).

Slope with drainage channel and sump.

At the transition section between pit floor and walls no hollow moldings/coves are possible. If hollow moldings/coves are required, the systems must be designed smaller or the pits accordingly wider.

For convenient use of your parking space and due to the fact that the cars keep becoming longer we recommend a pit length of 540 cm.

Must be at least as high as the greatest car height + 5 cm.

G63-330

G63-350

G63-370

1. Standard type
2. Special system: maximum load (only EB) for extra charge.
3. To follow the minimum finished dimensions, make sure to consider the tolerances during construction.
4. Car width for platform width 230 cm. If wider platforms are used, it is also possible to park wider cars.
5. If a higher ceiling height is available, higher cars can be parked at top level platform.
6. For dividing walls: cutting through 10 x 10 cm.
7. Potential equalization from foundation grounding connection to system (provided by the customer).
End parking spaces are generally more difficult to drive into. Therefore, we recommend our wider platforms for end parking spaces. Parking larger vehicles on standard width platforms may make getting into and out of the vehicle difficult. This depends on the type of the vehicle, approach and above all, on the driver’s skill.

Function

System lifted

System in middle position

System lowered
Garage with door

Width dimensions for garage with door

Single platform (EB)

- Usable platform width: 230, 240, 250, 260, 270
- Door entrance width B6: 230, 240, 250, 260
- B7: 15
- B8: 30

Double platform (DB)

- Usable platform width DB: 460, 470, 480, 490, 500
- Door entrance width B6: 460, 470, 480, 490, 500
- B7: 20
- B8: 40

Dimensions A1, A2 and A3 must be coordinated with the door supplier (provided by the customer).

Slope with drainage channel and sump.

Seat-engaging surface (dimensions require coordination with door supplier.) All round door dimensions require coordination between door supplier and local agency of KLAUS Multiparking.

End parking spaces are generally more difficult to drive into. Therefore, we recommend our wider platforms for end parking spaces. Parking larger vehicles on standard width platforms may make getting into and out of the vehicle difficult. This depends on the type of the vehicle, approach and above all, on the driver’s skill.

Approach

Maximum descending slope 4%

The illustrated maximum approach angels must not be exceeded. Incorrect approach angles will cause serious maneuvering & positioning problems on the parking system for which the local agency of the KLAUS Multiparking accepts no responsibility.
Load plan

Installation data - Free space for longitudinal and vertical ducts (e.g. ventilation)

- Units are doweled to the floor. Drilling depth: approx. 15 cm.
- Floor and walls below the drive-in level are to be made of concrete (quality minimum C20/25).
- The dimensions for the points of support are rounded values. If the exact position is required, please contact KLAUS Multiparking.

Dimension B1 see page 2
Colors used in this illustration are representative
All forces in kN (Static Loads)

Free space only applicable if vehicle is parked forward = FRONT FIRST and driver’s door on the right side.

Dimensions B1, B2 and B3 see page 2.
Electrical installation

Technical data

1. Field of application
   - Generally parking system is suitable for the same car length for which the wheelstop is adjusted, at the time of installation. In case different car is to be parked, wheelstop adjustment confirmation from KLAUS Multiparking shall be required.

2. Care
   - To avoid damages resulting from corrosion, make sure to follow our cleaning and care instructions and to provide good ventilation of your garage.

3. Safely fences
   - Any constraints that may be necessary to provide protection for the park pits for pathways directly in front, next to or behind the unit. This is also valid during construction. Railing for the system are included in the series delivery when necessary.

4. Railings
   - If the permissible drop opening is exceeded, railings are to be provided. If there are traffic routes next to or behind the installations, railings must be installed by the customer. Railings must also be in place during construction.

5. Environmental conditions
   - Environmental conditions for the area of multiparking systems:
     - Temperature range 5°C to +40°C. Maximum outside temperature of +45°C.
     - If the local circumstances differ from the above, please contact KLAUS Multiparking.

6. To be performed by the customer

7. Strip footings
   - If due to structural condition strip footings must be effected, the customer shall be provided an accessible platform reaching to the top of the said strip footings to enable and facilitate the mounting work.

8. Marking
   - A warning that identifies this danger area must be placed in the entrance area. This must be done for systems with a pit (platforms within the pit) 10 cm from the edge of the pit.

9. Wall cuttings
   - Any necessary wall cuttings according to page 1.

Electrical data

Electrical data (to be performed by the customer)

<table>
<thead>
<tr>
<th>No.</th>
<th>Quantity</th>
<th>Description</th>
<th>Position</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>Electricity meter</td>
<td>in the supply line</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>Power Point: 3 x fuses 20 A (slow) or circuit breaker 3 x 20 A (trigger characteristic K or C)</td>
<td>in the supply line</td>
<td>1 per unit</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>Supply line 5 x 4.0 mm³, Copper (3 PH + N + PE) with marked wire and protective conductor</td>
<td>to main switch</td>
<td>1 per unit</td>
</tr>
<tr>
<td>4</td>
<td>1</td>
<td>Lockable main switch defined at the plan evaluation</td>
<td>defined at the plan evaluation</td>
<td>1 per unit</td>
</tr>
<tr>
<td>5</td>
<td>1</td>
<td>Supply line 5 x 4.0 mm³, Copper (3 PH + N + PE) with marked wire and protective conductor</td>
<td>from main switch to unit</td>
<td>1 per unit</td>
</tr>
<tr>
<td>6</td>
<td>1</td>
<td>Foundation earth connector (complex grounding)</td>
<td>corner pit floor</td>
<td>1 per system</td>
</tr>
<tr>
<td>7</td>
<td>1</td>
<td>Equipotential bonding from foundation earth connector to the system</td>
<td>1 per system</td>
<td></td>
</tr>
</tbody>
</table>

Electrical data (included in delivery of Klaus Multiparking)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Terminal box</td>
</tr>
<tr>
<td>9</td>
<td>Control line 3 x 0.75 mm² (PH + N + PE)</td>
</tr>
<tr>
<td>10</td>
<td>Control line 5 x 0.75 mm² with marked wire and protective conductor</td>
</tr>
<tr>
<td>11</td>
<td>Operating device</td>
</tr>
<tr>
<td>12</td>
<td>Control line 5 x 0.75 mm² with marked wire and protective conductor</td>
</tr>
<tr>
<td>13</td>
<td>Hydraulic unit 5.2 kW, three-phase current, 415 V / 50 Hz</td>
</tr>
<tr>
<td>14</td>
<td>Control line 5 x 0.75 mm² with marked wire and protective conductor</td>
</tr>
</tbody>
</table>

Environmental services

1. Consecutive numbering of parking spaces
   - Consecutive numbering of parking spaces.

2. Building services
   - Any required lighting, ventilation, fire extinguishing and fire alarm systems as well as clarification and compliance with the relevant regulatory requirements.

3. Drainage
   - For the front area of the pit we recommend a drainage channel, which you connect to a floor drain system or sump (50 x 50 x 20 cm). The drainage channel may be inclined to the side, however not the pit for itself (longitudinal incline is available). For reasons of environmental protection we recommend to paint the pit floor, and to provide oil and petrol separators in the connections to the public sewage systems.
**Description Single platform (EB) and Double platform (DB)**

**General description**

KLAUS Multiparking system providing independent parking spaces for 3 cars (EB), 2 x 3 cars (DB), one on top of the other each. Dimensions are in accordance with the underlying dimensions of parking pit, height and width. The parking bays are accessed horizontally (installation deviation ±1%).

Vehicles are positioned on each parking space using wheel stop on the left side (adjust according to operating instructions).

The user is responsible for positioning the vehicle.

Operation via operating device with hold-to-run-device using master keys.

The operating elements are usually mounted either in front of the column or on the outside of the door frame.

Operating instructions are attached to each operator’s stand.

For safety reasons it is recommended to install safety doors at the entrance.

For garages with doors at the front of the parking system the special dimensional requirements have to be taken into account.

**Multiparking system consists of**

- 2 steel pillars with bases that are mounted on the floor
- 2 sliding platforms (mounted to the steel pillars with sliding bearings)
- 3 platform
- 1 mechanic synchronization control system (to ensure synchronous operation on the hydraulic cylinders while lowering and lifting the platform)
- 2 hydraulic cylinders
- 2 rigid supports (connect the platforms)
- Welded hydraulic lines up to installed globe valve
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking.

**Platforms consists of**

- Platform base sections
- Adjustable wheel stops
- Canted access plates
- Side members
- Central side member [only DB]
- Cross members
- Screws, nuts, washers, distance tubes, etc.

**Hydraulic system consists of**

- Hydraulic cylinder
- Solenoid valve
- Safety valve
- Hydraulic pipes
- Screwed joints
- high-pressure hoses
- Installation material

**Electric system consists of**

- Operating device (Emergency Stop, lock, 1 master key per parking space)
- Terminal box at wall valve
- Reed switch

**Hydraulic unit consists of**

- Hydraulic power unit (low-noise, installed onto a console with a metal mounting)
- Hydraulic oil reservoir
- Oil filling
- Internal geared wheel pump
- Pump holder
- 3-phase-AC-motor
- Contactor (with thermal overcurrent relay and control fuse)
- Pressure gauge
- Pressure relief valve
- Hydraulic hoses (which reduce noise transmission onto the hydraulic pipe)

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We reserve the right to change these specifications without prior notice.

KLAUS Multiparking reserves the right in the course of the technical progress to use newer or other technologies, system, processes, procedures or standards in the fulfillment of their obligations other than those originally offered.