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PRODUCT DATA



multibase G63

Outdoor installation

Dimensions

All space requirements are minimum finished dimensions.

Tolerances for space requirements $\pm 3_0^{\circ}$ ③
Dimensions in cm.

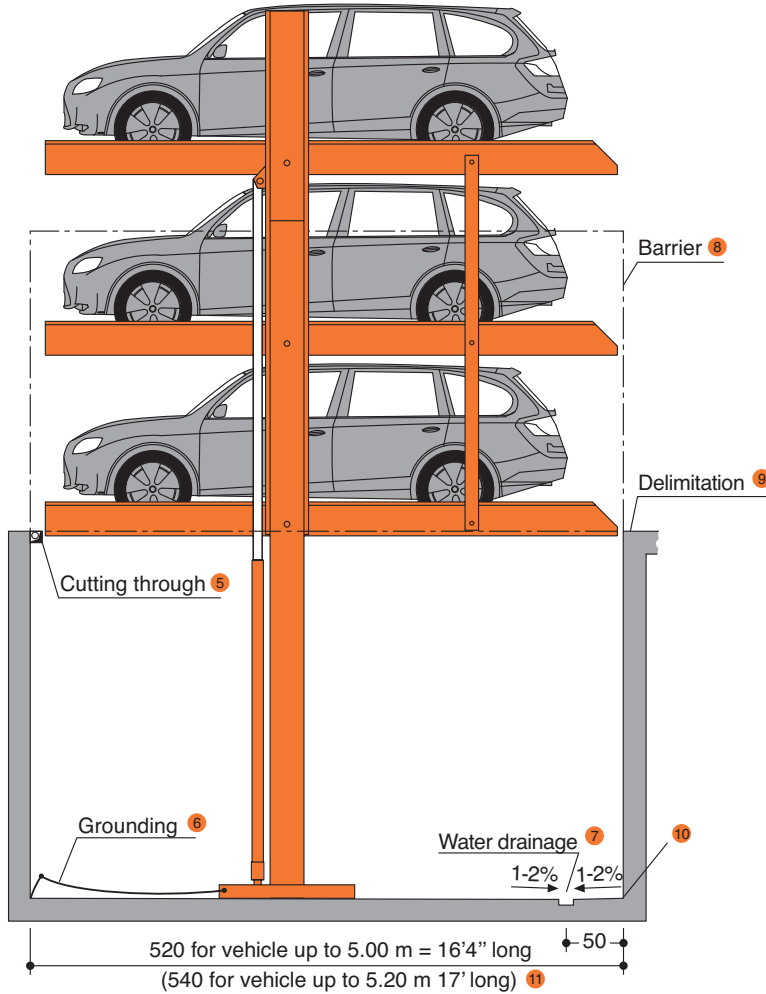
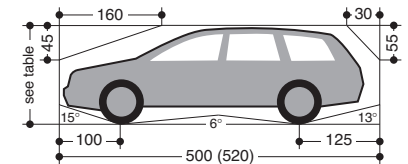
EB (single platform) = 3 vehicles
DB (double platform) = 6 vehicles

Suitable for

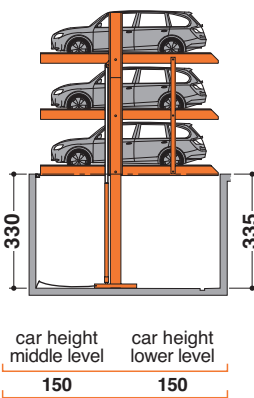
Standard passenger cars:
Limousine, station wagon, SUV, van
according to clearance and maximal
surface load.

	Standard	Special ②
width	190 cm ④	190 cm ④
weight	see page 3	
wheel load	see page 3	

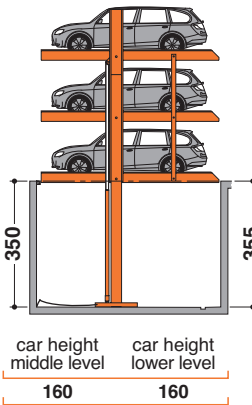
Clearance profile



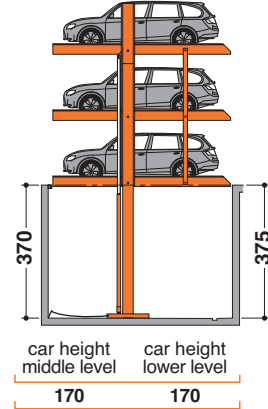
G63-330



G63-350 ①



G63-370



! To the extent that the conditions of the construction do not restrict the height, the car height on the upper parking slots is not restricted.

- 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 according to VOB, part C (DIN 18330 and 18331) and the DIN 18202.
- ④ Car width for platform width 230 cm. If wider platforms are used it is also possible to park wider cars.
- ⑤ For dividing walls: cutting through 10 x 10 cm.
- ⑥ Potential equalization from foundation grounding connection to system (provided by the customer).
- ⑦ Slope with drainage channel and sump. With direct connection to the sewerage system.
- ⑧ Three-sided barrier compliant to DIN EN ISO 13857.
- ⑨ In compliance with DIN EN 14010, 10 cm wide yellow-black markings compliant to ISO 3864 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 3).
- ⑩ At the transition section between pit floor and walls no hollow mouldings/coves are possible. If hollow mouldings/coves are required, the systems must be designed smaller or the pits accordingly wider.
- ⑪ 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.

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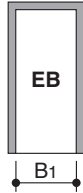
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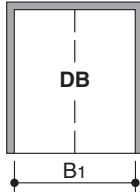
Width dimensions

Single Platform (EB)



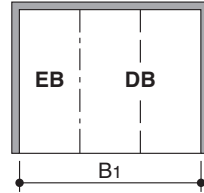
usable platform width	B1
230	260
240	270
250	280
260	290
270	300

Double Platform (DB)



usable platform width	B1
460	500
470	510
480	520
490	530
500	540

Single and Double Platform (EB + DB) – Example



usable platform width	B1
230 + 460	760
240 + 470	780
250 + 480	800
250 + 500	820
270 + 500	840

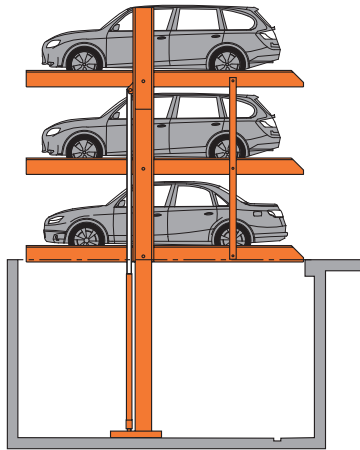
Carriageway in accordance with local regulations

! For parking boxes on the edges and boxes with intermediate walls we recommend our maximum platform width of 270 cm for single platforms and 500 for double platforms. Problems may occur if smaller platform widths are used (depending on car type, access and individual driving behaviour and capability).

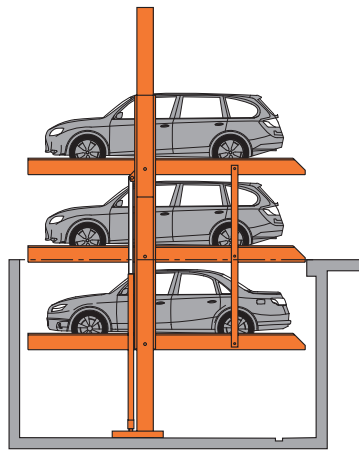
For larger limousines and SUV wider driveways are necessary (in particular on the boxes on the sides due to the missing manoeuvring radius).

Function

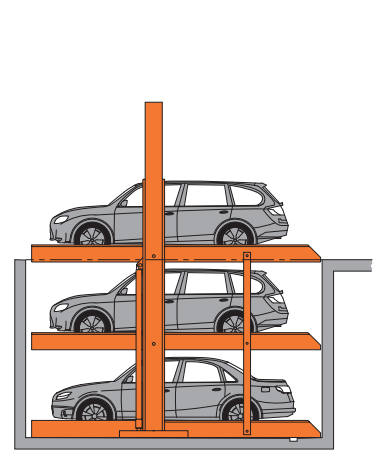
System lifted



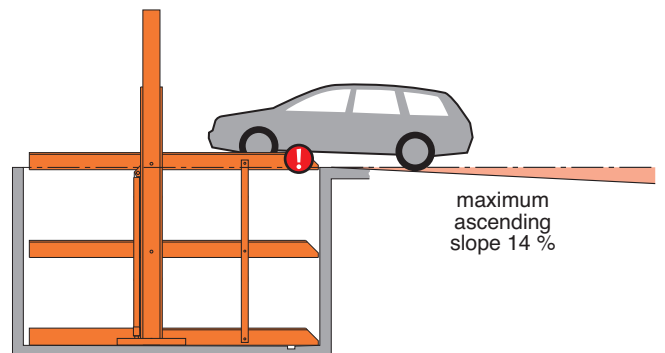
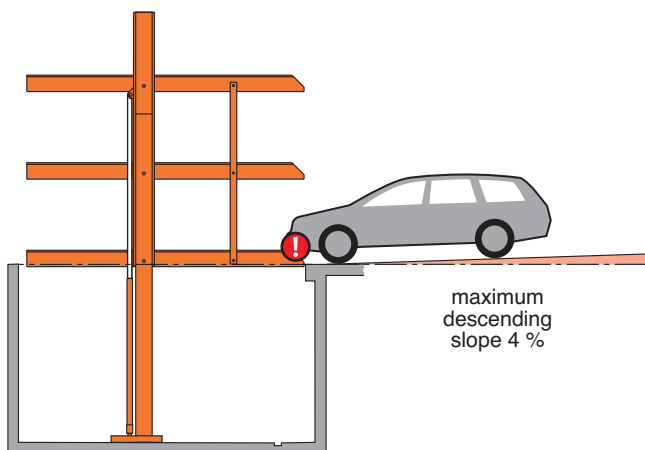
System in middle position



System lowered



Approach



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

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Load per parking space

For countries where snow loads are a crucial factor

MultiBase G63 2,0 to. (EB + DB)

parking space	weight	wheel load
upper parking space	1500 kg	375 kg
middle parking space	2000 kg	500 kg
lower parking space	2000 kg	500 kg

MultiBase G63 2,5 to. (only EB) – for extra charge

parking spaces	weight	wheel load
upper parking space	2000 kg	500 kg
middle parking space	2500 kg	625 kg
lower parking space	2500 kg	625 kg

For countries where snow loads is no relevant factor

MultiBase G63 2,0 to. (EB + DB)

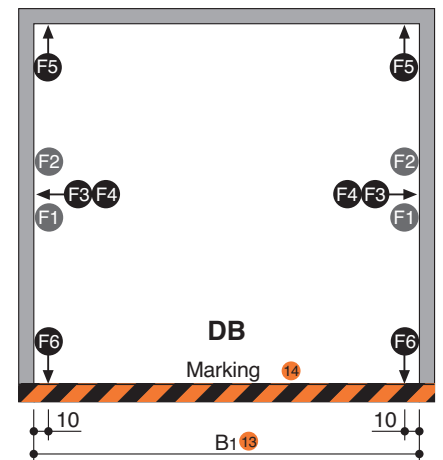
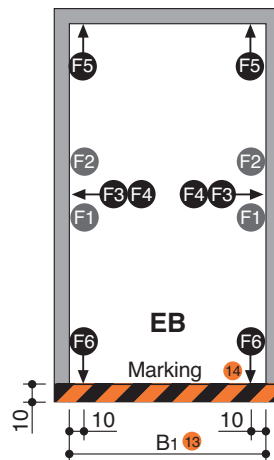
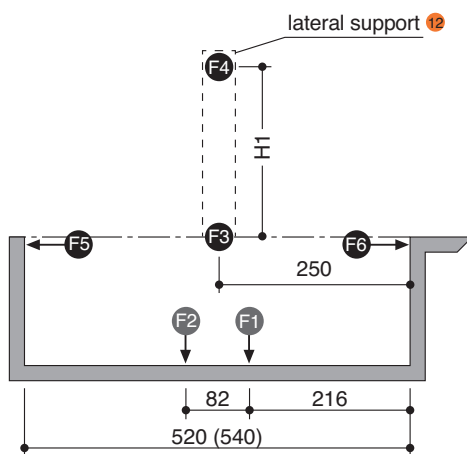
parking spaces	weight	wheel load
upper parking space	2000 kg	500 kg
middle parking space	2000 kg	500 kg
lower parking space	2000 kg	500 kg

MultiBase G63 2,5 to. (only EB) – for extra charge

parking spaces	weight	wheel load
upper parking space	2500 kg	625 kg
middle parking space	2500 kg	625 kg
lower parking space	2500 kg	625 kg

! Applies to a snow depth of 20 cm; in case of larger snow depths the snow must be removed.

Load plan



platform load	F1	F2	F3	F4	F5	F6
EB 2000 kg	+25	+55 -20	+3,5	+3,5	+12	+15
EB 2500 kg	+25	+63 -20	+3,5	+3,5	+12	+15
DB 2000 kg	+35	+80 -25	+4	+4	+12	+20

Type	H1
G63-330	225
G63-350	245
G63-370	265

! Units are dowelled 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.

¹² The system must be laterally supported on both sides. If there are no walls on the sides, an additional stand must be attached. For this stand, a base area of 40 x 25 cm is required (quality minimum C20/25).

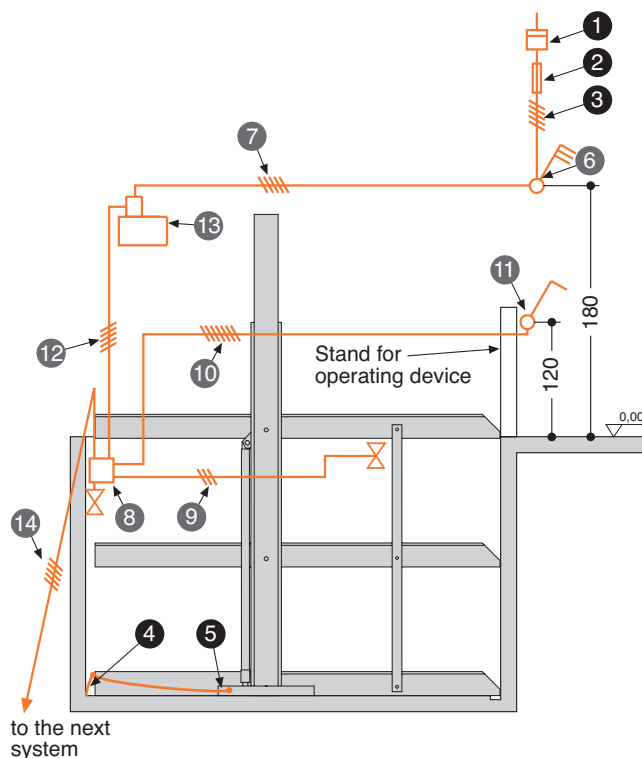
¹³ Dimension B1 see page 2

¹⁴ Marking compliant to ISO 3864 (colors used in this illustration are not ISO 3864 compliant)

¹⁵ All forces in kN

Electrical installation

Installation diagram



Electrical data (to be performed by the customer)

No.	Quantity	Description	Position	Frequency
1	1	Electricity meter	in the supply line	
2	1	Main fuse: 3 x fuse 20 A (slow) or circuit breaker 3 x 20 A (trigger characteristic K or C)	in the supply line	1 per unit
3	1	Supply line 5 x 2.5 mm ² (3 PH + N + PE) with marked wire and protective conductor	to main switch	1 per unit
4	every 10 m	Foundation earth connector	corner pit floor	
5	1	Equipotential bonding in accordance with DIN EN 60204 from foundation earth connector to the system		1 per system

Electrical data (included in delivery of KLAUS Multiparking)

No.	Description
6	Lockable main switch
7	Supply line 5 x 2.5 mm ² (3 PH + N + PE) with marked wire and protective conductor
8	Terminal box
9	Control line 3 x 0.75 mm ² (PH + N + PE)
10	Control line 7 x 1.5 mm ² with marked wire and protective conductor
11	Operating device
12	Control line 5 x 1.5 mm ² with marked wire and protective conductor
13	Hydraulic unit 5.2 kW, three-phase current, 230/400 V / 50 Hz
14	Control line 5 x 1.5 mm ² with marked wire and protective conductor

Technical data

Field of application

By default, the system can only be used for a fixed number of users.

If different users use the system – only on the upper parking spaces – (e.g. short-time parkers in office buildings or hotels) the Multiparking system needs to be adjusted. If required, would you please contact us.

Units

Low-noise power units mounted to rubber-bonded-to metal mountings are installed. Nevertheless we recommend that parking system's garage be built separately from the dwelling. If it is not possible to install the hydraulic power units with the solenoid valves in adjacent buildings or spaces, the power unit and the solenoid valves must be housed in a cabinet (at an extra charge).

Available documents

- wall recess plans
- maintenance offer/contract
- declaration of conformity
- test sheet on airborne and slid-borne sound

Building application documents

According to LBO and GaVo (garage regulations) the Multiparking systems are subject to approval. We will provide the required building application documents.

Corrosion protection

See separate sheet regarding corrosion protection.

Care

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

Gap covers

Any existing gaps between the systems or the platforms and the walls of the pit must be reduced to approx. 10 cm by installing sheet-metal covers (at an extra charge).

Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range –20 to +40° C. Relative humidity 50% at a maximum outside temperature of +40° C.

If lifting or lowering times are specified, they refer to an environmental temperature of +10° C and with the system set up directly next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times increase.

CE Certification

The systems offered correspond to DIN EN 14010 and the EC Machinery Directive 2006/42/EG.

Operating device

The home and off position of the system must always be in the lowered position. Special controls with key interlock are required that ensure that the key can only be removed when the system has been lowered to its lowest position. Depending on the conditions of the construction project, a stand may be necessary for the control elements (at an extra charge).

Sound insulation

According to DIN 4109 (Sound insulation in buildings), para. 4, annotation 4, KLAUS Multiparkings are part of the building services (garage systems).

Normal sound insulation:

DIN 4109, para. 4, Sound insulation against noises from building services.

Table 4 in para. 4.1 contains the permissible sound level values emitted from building services for personal living and working areas. According to line 2 the maximum sound level in personal living and working areas must not exceed 30 dB (A). *Noises created by users are not subject to the requirements (see table 4, DIN 4109).*

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of building $R'_w = 57$ dB (to be provided by customer)

Increased sound insulation (special agreement):

Draft DIN 4109-10, Information on planning and execution, proposals for increased sound insulation.

Agreement: Maximum sound level in personal living and working areas 25 dB (A). *Noises created by users are not subject to the requirements (see table 4, DIN 4109).*

The following measures are to be taken to comply with this value:

- Sound protection package according to offer/order (KLAUS Multiparking GmbH)
- Minimum sound insulation of building $R'_w = 62$ dB (to be provided by customer)

Note: User noises are noises created by individual users in our Multiparking systems. These can be noises from accessing the platforms, slamming of vehicle doors, motor and brake noises.

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To be performed by the customer

Safety fences

Constraints according to DIN EN ISO 13857 must be put in place on three sides (all except the entrance side), unless buildings border the pit.

Numbering of parking spaces

Consecutive numbering of parking spaces.

Building services

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

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 floor 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 network.

Strip footings

If due to structural conditions strip footings must be effected, the customer shall provide an accessible platform reaching to the top of the said strip footings to enable and facilitate the mounting work.

Marking

According to DIN EN 14010, a warning that identifies this danger area must be placed in the entrance area that conforms to ISO 3864. This must be done according to EN 92/58/EWG for systems with a pit (platforms within the pit) 10 cm from the edge of the pit.

Wall cuttings

Any necessary wall cuttings according to page 1.

Electrical supply to the main switch / Foundation earth connector

Suitable electrical supply to the main switch must be provided by the customer during installation. The functionality can be monitored on site by our fitters together with the electrician. If this cannot be done during installation for some reason for which the customer is responsible, the customer must commission an electrician at their own expense and risk.

In accordance with DIN EN 60204 (Safety of Machinery. Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m).

If the following are not included in the quotation, they will also have to be provided / paid for by the customer:

- Mounting of contactor and terminal box to the wall valve, complete wiring of all elements in accordance with the circuit diagram
- Costs for final technical approval by an authorized body
- Main switch
- Control line from main switch to hydraulic unit

Description Single platform (EB) and Double platform (DB)

General description

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 $\pm 1\%$).

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

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

Operating instructions are attached to each operator's stand.

Multiparking system consisting of:

- 2 steel pillars with base elements (mounted on the floor)
- 2 sliding platforms (mounted to the steel pillars with sliding bearings)
- 3 platforms
- 1 mechanic synchronization control system (to ensure synchronous operation of 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 consisting of:

- Platform base sections
- Adjustable wheel stops
- Canted access plates
- Side members
- Central side member [only DB]
- Cross members
- Safety railings – along the upper, middle and lower platform (if required)
- Screws, nuts, washers, distance tubes, etc.

Hydraulic system consisting of:

- Hydraulic cylinder
- Solenoid valve
- Safety valve
- Hydraulic conduits
- Screwed joints
- High-pressure hoses
- Installation material

Electric system consisting of:

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

Hydraulic unit consisting of:

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

We reserve the right to change this specification without further notice

KLAUS Multiparking reserves the right in the course of technical progress to use newer or other technologies, systems, processes, procedures or standards in the fulfillment of their obligations other than those originally offered provided the customer derives no disadvantage from their so doing.