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med by the customer

Description

Technical

Load plan

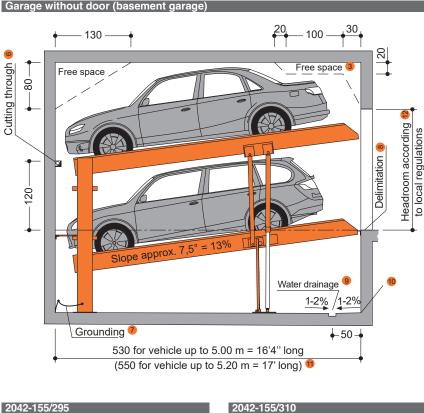
Width dim.

without door



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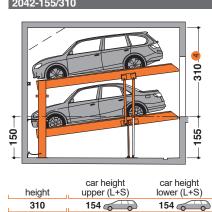


# ear height upper (L) S car height lower (L+S)

150 🧹

-0-

295



# PRODUCT DATA

# multibase 2042

# 2000 kg

#### Dimensions

All space requirements are minimum finished dimensions.

Tolerances for space requirements  $^{+3}_{0}$ . **1** Dimensions in cm.

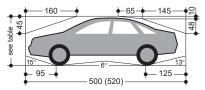
EB (single platform) = 2 vehicles DB (double platform) = 4 vehicles

## Suitable for

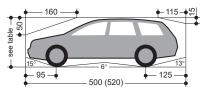
Standard passenger cars: Limousine, station wagon, SUV, van according to clearance and maximal surface load.

width	190 cm 🙎
weight	max. 2000 kg
wheel load	max. 500 kg

Clearance profile Limousine (L)



Clearance profile Station wagon (S)



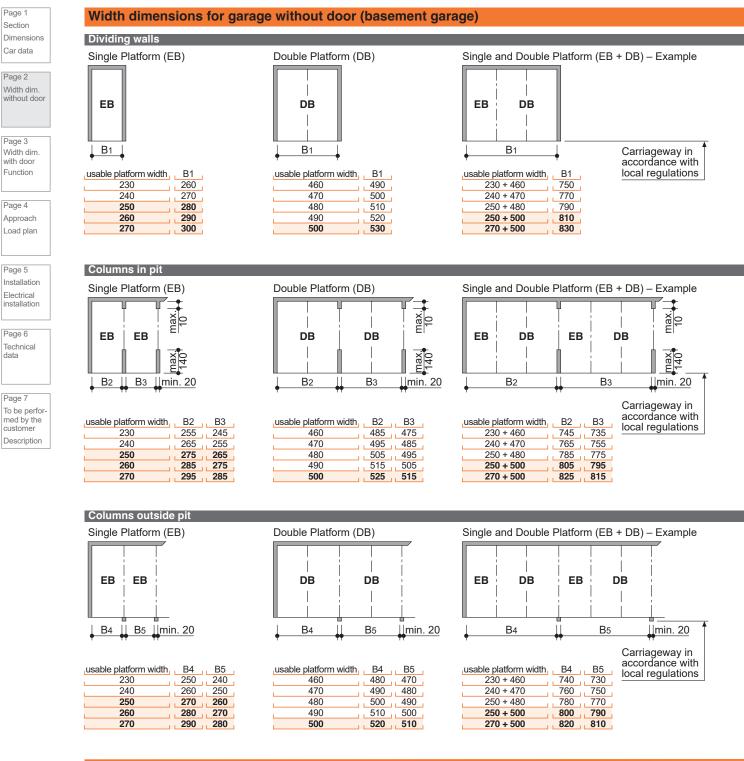
- To follow the minimum finished dimensions, make sure to consider the tolerances according to VOB, part C (DIN 18330 and 18331) and the DIN 18202.
- Car width for platform width 230 cm. If wider platforms are used it is also possible to park wider cars.
- I Free space does not apply for station wagons on upper platform.
  If a higher ceiling height is available higher cars can

154 🥳

0

- be parked.
- 5 L = Limousine / S = Station wagon
- 6 For dividing walls: cutting through 10 x 10 cm.
- Potential equalization from foundation grounding connection to system (provided by the customer).
- 8 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 4).
- 9 Slope with drainage channel and sump.
- 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.
- for convenient use of your parking space and due to the fact that the cars keep becoming longer we recommend a pit length of 550 cm.
- 12 Must be at least as high as the greatest car height + 5 cm.

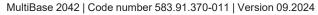
MultiBase 2042 | Code number 583.91.370-011 | Version 09.2024

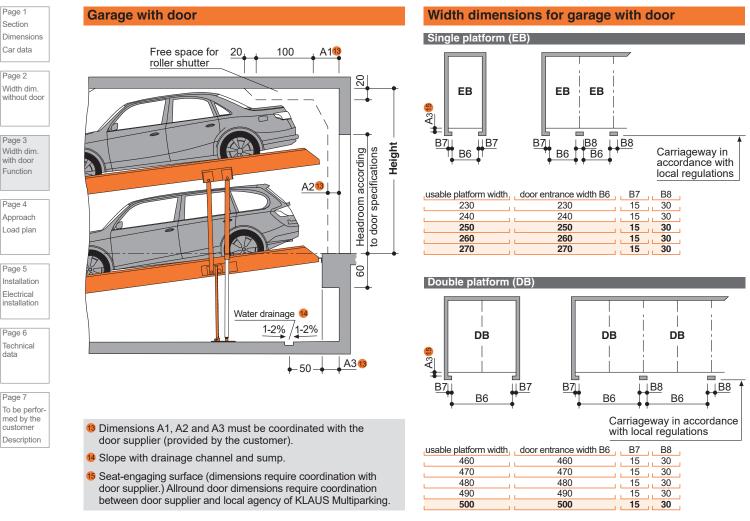


0

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).





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### **Function**

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customer

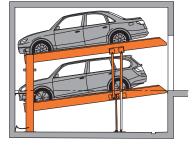
Description

Technical data

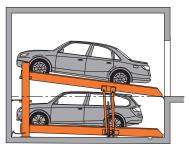
Installation

Electrical installation

#### System lifte

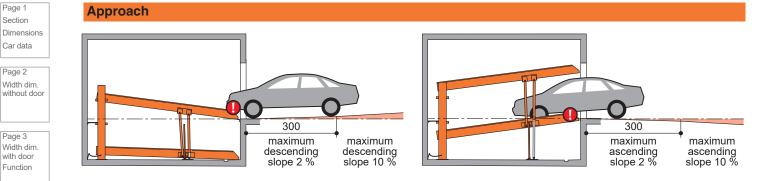


System lowered



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accepts no responsibility.



The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious

maneouvring & positioning problems on the parking system for which the local agency of KLAUS Multiparking

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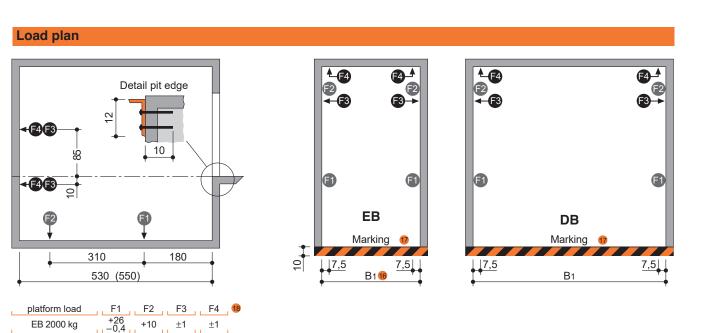
Width dim. with door

Function

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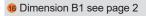
Units are dowelled to the floor. Drilling depth: approx. 15 cm.

±1

±1,2

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.



+47 -3,1

+16

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

18 All forces in kN

DB 2000 kg

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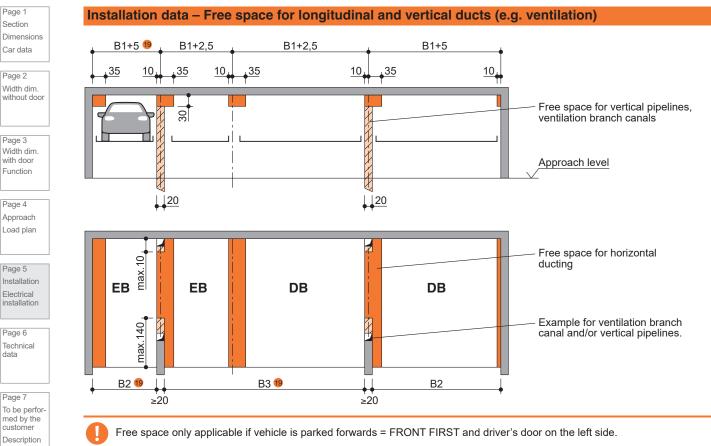
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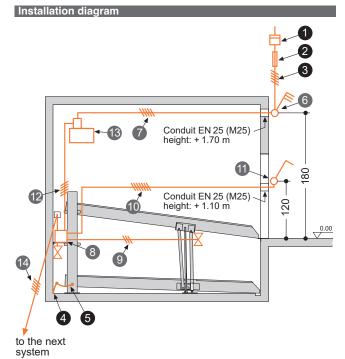
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(9 Dimensions B1, B2 and B3 see page 2

#### **Electrical installation**



lo.	Qunatity	Description	Position	Frequency
1	1	Electricity meter	in the supply line	
2	1	Main fuse: 3 x fuse 16 A (slow) or circuit breaker 3 x 16 A (trigger characteristic K or C)	in the supply line	1 per unit
3	1	Supply line 5 x 2.5 mm <sup>2</sup> (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		1 per
		earth connector to the system	L	system
Ele No.	ctrical d		AUS Multipar	
	I	earth connector to the system	AUS Multipar	
No.	Lockabl Supply I	earth connector to the system ata (included in delivery of KL Description		
No. 6	Lockabl Supply I	earth connector to the system ata (included in delivery of KL Description le main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor		
No. 6 7	Lockabl Supply I and proi	earth connector to the system ata (included in delivery of KL Description le main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor		
No. 6 7 8	Lockabl Supply I and prot Termina Control	earth connector to the system ata (included in delivery of KL Description le main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor I box	marked wire	king)
No. 6 7 8 9	Lockabl Supply I and pro Termina Control Control	earth connector to the system ata (included in delivery of KL Description le main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor I box line 3 x 0.75 mm <sup>2</sup> (PH + N + PE)	marked wire	king)
No. 6 7 8 9 10	Lockabl Supply I and pro Termina Control Control Operatir	earth connector to the system ata (included in delivery of KL Description e main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor I box line 3 x 0.75 mm <sup>2</sup> (PH + N + PE) line 7 x 1.5 mm <sup>2</sup> with marked wire and	marked wire	king)
No. 6 7 8 9 10 11	Lockabl Supply I and proi Termina Control Control Operatin Control	earth connector to the system ata (included in delivery of KL Description le main switch ine 5 x 2,5 mm <sup>2</sup> (3 PH + N + PE) with tective conductor I box line 3 x 0.75 mm <sup>2</sup> (PH + N + PE) line 7 x 1.5 mm <sup>2</sup> with marked wire and ng device	marked wire d protective conc d protective conc	king)

## **Technical data**

Units

#### Field of application

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

# Width dim

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without door

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.

#### Available documents

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

#### Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range –10 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.

#### Sound insulation

According to DIN 4109 (Sound insulation in buildings), para. 4, annotation 4, KLAUS Multiparkers 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 andworking 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'<sub>W</sub> = 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.

#### 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.

#### Care

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

#### Corrosion protection

See separate sheet regarding corrosion protection.

#### Railings

If the permissible drop opening is exceeded, railings are to be mounted on the systems. If there are traffic routes next to or behind the installations, railings compliant to DIN EN ISO 13857 must be installed by the customer. Railings must also be in place during construction.

#### CE Certification

The systems on offer comply with DIN EN 14010 and EC Machine Directive 2006/42/EC. Furthermore, this system underwent voluntary conformity testing by TÜV SÜD.



### To be performed by the customer

#### Safety fences

Any constraints that may be necessary according to DIN EN ISO 13857 in order to provide protection for the park pits for pathways directly in front, next to or behind the unit. This is also valid during construction. Railings for the system are included in the series delivery when necessary.

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 themounting 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.

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

#### General description

Multiparking system providing independent parking spaces for 2 cars (EB), 2 x 2 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 inclined (by approx. 7.5 degrees).

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.

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

#### 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) 2 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)
- 1 automatic hydraulic safety valve (prevents accidental lowering of the platform while accessing the platform)
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking!

#### 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.

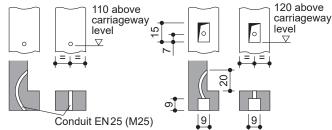
In accordance with DIN EN 60204 (Safety of Machinery, Electrical Equipment), grounding of the steel structure is necessary, provided by the customer (distance between grounding max. 10 m)

#### Operating device

Cable conduits and recesses for operating device (for double wing doors: please contact the local agency of KLAUS Multiparking).

#### Operating device exposed





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

#### 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 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

#### Hydraulic unit consisting of:

- Hydraulic power unit (low-noise, installed onto a console with a rubber-bonded-to-metal mounting)
- Hvdraulic 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.

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