Page 1 Section Dimensions Car data

Page 2 Width dim Function Approach



Load plan

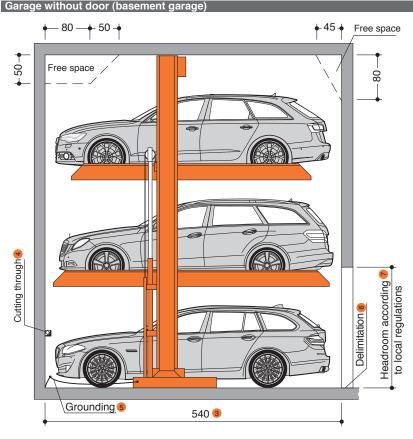
Seite 4 Electrical installation Technical data

Page 5 To be perfor med by the customer Description



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**PRODUCT DATA** 

CE

# singleup 3015

## 2000 kg

#### Dimensions

All space requirements are minimum finished dimensions

Tolerances for space requirements<sup>+3</sup><sub>0</sub>. <sup>2</sup> Dimensions in cm.

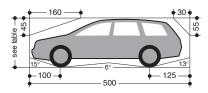
EB (single platform) = 2 vehicles

### Suitable for

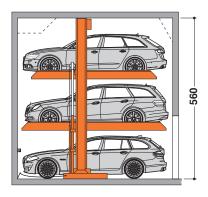
Standard passenger cars: Limousine, station wagon, SUV, van according to clearance and maximal surface load.

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

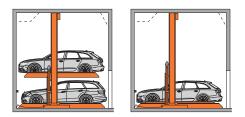
Clearance profile



#### 3015-560

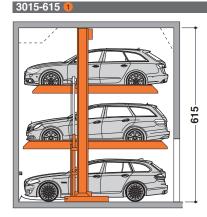


car height car height car height height upper middle lower 160 180 560 160



#### 1 Standard type

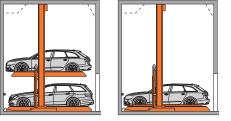
- 2 To follow the minimum finished dimensions, make sure to consider the tolerances according to VOB, part C (DIN 18330 and 18331) and the DIN 18202
- If the total length is greater, the max. vehicle length for the lower parking space increases accordingly.
- For dividing walls: cutting through 10 x 10 cm.



180







- 6 Potential equalization from foundation grounding connection to system (provided by the customer).
- In compliance with DIN EN 14 010, 10 cm wide yellow-black markings compliant to ISO 3864must be applied by the customer to the edge of the platform in the access area to mark the danger zone in front of the supporting surface of the upper platform edge (see "Load Plan" Page 4).
- 7 Must be at least as high as the greatest car height + 5 cm.

SingleUp 3015 | Code number 583.91.510-006 | Version 11.2012

Carriageway in accordance with

local regulations

Width dimensions for garage without door (basement garage)





Page 2 Width dim. Function Approach

В

usable platform width

220 (210\*)

230 (220\*) 240 (230\*)

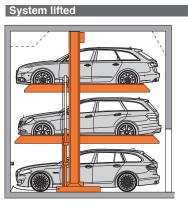
\* upper platform

**Function** 

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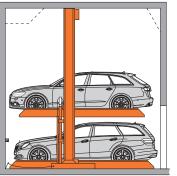
в

250 260

270

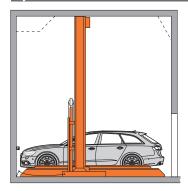
Before lowering the platforms, the vehicle parked in the lower parking space must be driven off!

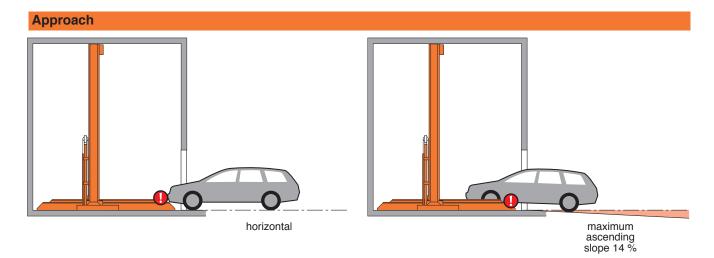
## System in middle position



Before lowering the upper platform, the vehicle parked on the lower platform must also be driven off!

System lowered





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 accepts no responsibility.

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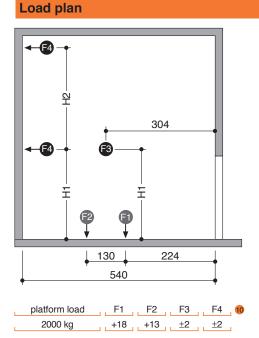
Page 2 Width dim. Function Approach

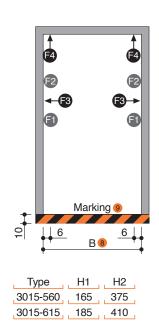
#### Page 3 Load plan

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

Floor and walls 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.

8 Dimension B see page 2

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

10 All forces in kN

### Electrical installation

### Installation diagram

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Electrical

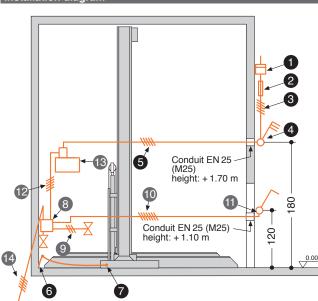
installation

Technical

To be perfor med by the customer

Description

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No	Qunatity	Description	Position	Frequency
1	1	Electricity meter	in the supply line	. requeries
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	1	Lockable main switch	defined at the plan evaluation	1 per unit
5	1	Supply line 5 x 2.5 mm <sup>2</sup> (3 PH + N + PE) with marked wire and protective conductor	from main switch to unit	1 per unit
6	every 10 m	Foundation earth connector	corner pit floor	
7	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)

Description

No.

- 8 Terminal box
- 9 Control line 3 x 0.75 mm<sup>2</sup> (PH + N + PE)
- 10 Control line 7 x 1.5 mm<sup>2</sup> with marked wire and protective conductor
- 11 Operating device
- 12 Control line 5 x 1.5 mm<sup>2</sup> with marked wire and protective conductor
- 13 Hydraulic unit 3.0 kW, three-phase current, 400 V / 50 Hz
- 14 Control line 5 x 1.5  $\text{mm}^2$  with marked wire and protective conductor

### **Technical data**

to the next

system

#### Field of application

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

#### 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.

#### Railings

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.

#### Environmental conditions

Environmental conditions for the area of multiparking systems: Temperature range -10 to  $+40^{\circ}$  C. Relative humidity 50% at a maximum outside temperature of  $+40^{\circ}$  C.

If lifting or lowering times are specified, they refer to an environmental temperature of  $+10^{\circ}$  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.

#### 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'<sub>W</sub> = 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. Any constraints that may be necessary according to DIN EN ISO

13857 in order to provide protection, for pathways directly in front,

Any required lighting, ventilation, fire extinguishing and fire alarm

systems as well as clarification and compliance with the relevant

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

According to DIN EN 14 010, a warning that identifies this

next to or behind the unit. This is also valid during construction.

To be performed by the customer

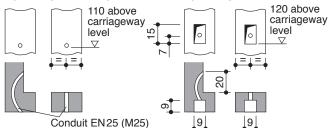
Numbering of parking spaces

Consecutive numbering of parking spaces.

#### Operating device

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

#### Operating device exposed Operating device concealed



#### 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)**

#### General description

one on top of the other each. The lower vehicle parks directly on the floor plate. The vehicle parked on the bottom must be driven out before lowering the platform.

height and width

The parking bays are accessed horinzotally (installation deviation

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

Operating instructions are attached to each operator's stand.

#### Multiparking system consisting of:

- 2 steel pillars with base plates (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 cylinder
- 1 automatic mechanical locking systeme (prevents accidental lowering of the platforms)
- Dowels, screws, connecting elements, bolts, etc.
- The platforms and parking spaces are end-to-end accessible for parking!

#### Platforms consisting of:

- Platform base sections
- Canted access plates
- Side members
- Cross members
- Screws, nuts, washers, distance tubes, etc..

#### Hydraulic system consisting of:

- Hydraulic cylinder
- Solenoid 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) 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.

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#### systems without a pit 10 cm from the edge of the platform. Wall cuttings

Marking

Safety fences

Building services

regulatory requirements.

Any necessary wall cuttings according to page 1.

Electrical supply to the main switch / Foundation earth connector

Suitable electrical supply to the main switch and the control wire line 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).

Multiparking system providing dependent parking spaces for 3 cars

# Dimensions are in accordance with the underlying dimensions of

+1%

column or on the outside of the door frame

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