

Product data

Dimensions, technical information and performance specification



spacevario cp2062









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Explanation of symbols



Platforms accessible horizontally.



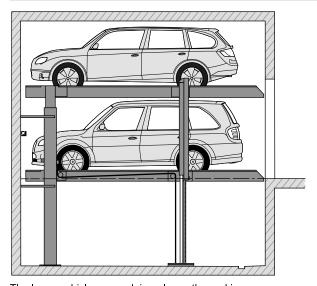
max. load per parking space in kg.



The systems provided are consistent with DIN EN 14010 and the EC Machinery Directive 2006/42/EC.

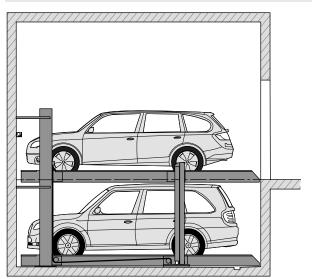
Parking positions

Lower parking space



The lower vehicle can park in or leave the parking space.

Upper parking space



The upper vehicle can park in or leave the parking space.

Dimensions and tolerances



All dimensions and minimum final dimensions.

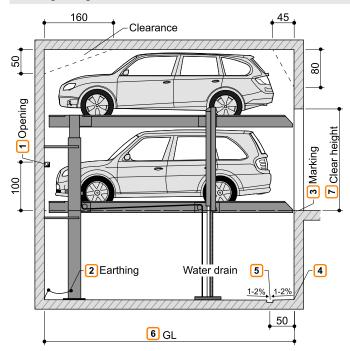
Tolerance for dimensions +3/-0. Dimensions in cm.

In order to adhere to the minimum final dimensions, the tolerances in accordance with the German Construction Tendering and Contract Regulations [VOB], Part C (DIN 18330 and 18331) and DIN 18202 must also be taken into account.



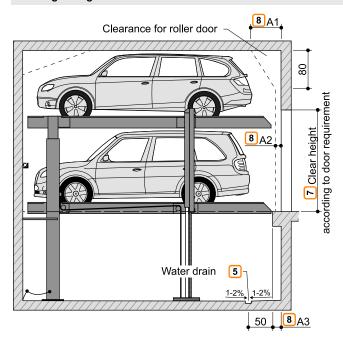
Overview of building configuration

Building configuration without door



- 1 With dividing walls: Wall opening 10 x 10 cm.
- Equipotential bonding from foundation earth connection to system (to be provided by the customer).
- 3 In accordance with DIN EN 14010, the customer must provide 10 cm wide, yellow/black marking in accordance with DIN ISO 3864 in the access area along the edge of the pit to identify the hazard area. (see "Loading schedule", page 7).
- 4 No fillets/haunches are permitted at the transition from the pit floor to the walls. If fillets/haunches are required, the systems must be narrower or the pits wider.
- 5 Slope with water collection channel (see "Drainage", page 12).

Building configuration with door



- 6 GL = building length
 - 520 cm for vehicles up to 5.0 mlong
 - 540 cm for vehicles up to 5.2 m long

Shorter versions are possible on request - observe local regulations on parking space lengths.

We recommend a pit length of 540 cm. for comfortable use of your parking space and increasingly longer vehicles.

- 7 Clear height in accordance with local regulations. Maximum vehicle height + 10 cm.
- 8 Dimensions A1, A2 and A3 must be coordinated between the door manufacturer and the customer.

Vehicle data

Version

SP (single platform) = 2 vehicles DP (double platform) = 4 vehicles

Parking options

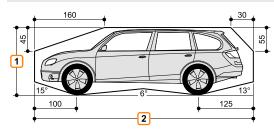
Series vehicles:

saloon, estate, SUV, van in accordance with clearance gauge and maximum parking space load.

	SP	DP
Weight	2600 kg	2600 kg
Wheel load	650 kg	650 kg

- 1 Vehicle height (see "Overview of system types and ceiling heights", page 4)
- 2 Vehicle length (see "Overview of building configuration", page 3)

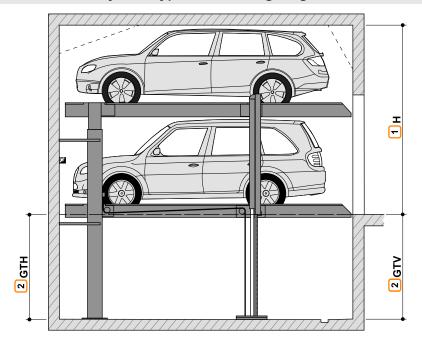
Clearance gauge



Vehicle width 190 cm with platform width 230 cm. Correspondingly wider vehicles can be parked with wider platforms.



Overview of system types and ceiling heights



H: Ceiling heightGTV: Pit depth, frontGTH: Pit depth, rear

- 1 If the ceiling is higher, correspondingly higher vehicles can be parked on the top.
- 2 If the minimum dimensions are not reached, then there will be access problems and limitations on the vehicle height.

			Vehicle		Vehicle height, upper												
Туре	GTH	GTV	height, lower	150	155	160	165	170	175	180	185	190	195	200	205	210	215
CP2062-170	170	175	150	325	330	335	340	345	350	355	360	365	370	375	380	385	390
CP2062-185	185	190	165	340	345	350	355	360	365	370	375	380	385	390	395	400	405
CP2062-195	195	200	175	350	355	360	365	370	375	380	385	390	395	400	405	410	415
CP2062-205	205	210	185	360	365	370	375	380	385	390	395	400	405	410	415	420	425
CP2062-215	215	220	195	370	375	380	385	390	395	400	405	410	415	420	425	430	435
									Н -	- Ceilir	ng heig	ght					

Example configuration



Example: Lower vehicle height165 cm & Upper vehicle height190 cm.

Type: CP2062 - 185 Ceiling height: 380 cm

			Vehicle	Vehicle height, upper													
Туре	GTH	GTV	height, Iower	150	155	160	165	170	175	180	185	190	195	200	205	210	215
CP2602-170	170	175	150	325	330	335	340	345	350	355	360	3 <mark>6</mark> 5	370	375	380	385	390
CP2602-185	185	190	165	340	345	350	355	360	365	370	3 75	380	385	390	395	400	405
CP2602-195	195	200	175	350	355	360	365	370	375	380	385	390	395	400	405	410	415
CP2602-205	205	210	185	360	365	370	375	380	385	390	395	400	405	410	415	420	425
									Н	- Ceilir	ng heig	ght					



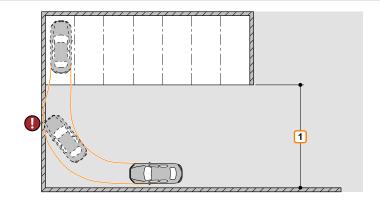
Width dimensions



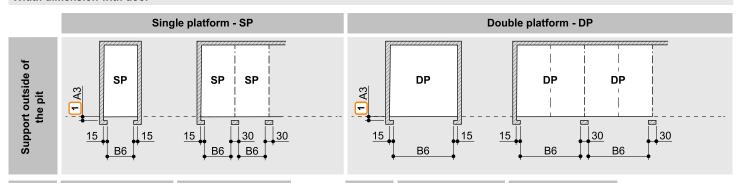
We recommend platform widths of minimum 250 cm and driving lane widths of 650 cm in order that vehicles can comfortably access the Multiparking system and enter and leave without difficulty.

Narrower platforms may impede parking according to the following criteria.

- Driving lane width
- Entrance conditions
- Vehicle dimensions
- 1 Observe minimum driving lane width in accordance with local regulations.



Width dimension with door



	Clear plat- form width 2	Passage width B6
	230	230
	240	240
SP	250	250
	260	260
	270	270

	Clear plat- form width	Passage width B6
	460	460
	470	470
	480	480
	490	490
DP	500	500
	510	510
	520	520
	530	530
	540	540

- 1 Door section (dimension A3 must be agreed on-site with the door manufacturer). With lateral closing doors, coordination between the door manufacturer and KLAUS Multiparking is required.
- 2 Narrower platform widths are available on request although it should be noted that use of the parking space will be limited by the reduced width and parking will be made more difficult. In many cases, these are not considered demonstrable vehicle parking spaces observe local regulations.



Width dimension without door Double platform - DP Single platform - SP **Example combination** Dividing walls SP DP SP DΡ В1 В1 В1 max. 20 max. 20 max. 20 Support in the pit SP SP DP DP SP DP DP SP nax. 140 B2 В3 min. 20 B2 ВЗ min. 20 B2 ВЗ min. 20 Support outside of the pit SP SP DΡ DP SP DP SP DP B4 **B**5 √min. 20 B4 В5 min. 20 B4 **B**5 min. 20 **Dividing walls** Support in the pit Support outside of the pit Clear platform width 1 В1 B2 В3 В4 **B**5 SP DP 230 + 460 240 + 470 250 + 480Combination 250 + 500 270 + 500270 + 510 270 + 520 270 + 530 270 + 540

¹ Narrower platform widths are available on request - although it should be noted that use of the parking space will be limited by the reduced width and parking will be made more difficult. In many cases, these are not considered demonstrable vehicle parking spaces - observe local regulations.



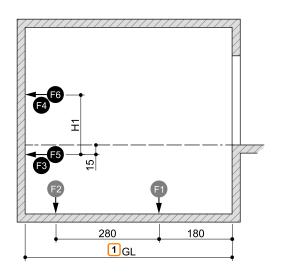
Loading schedule

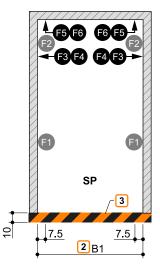


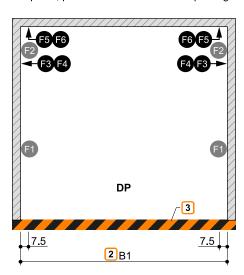
The systems are dowelled into the ground. The depth of the boreholes in the floor plate is approximately 15 cm, and approximately 12 cm in the walls.

The floor plate and walls below entrance level must be from concrete (concrete quality min. C20/25).

The dimensions for the bearing points have been rounded. If the precise figures are required, please consult KLAUS Multiparking.







- 1 Pit length GL (see "Overview of building configuration", page 3)
- 2 Width dimension B1 (see "Width dimension without door", page 6)
- 3 Marking in accordance with DIN ISO 3864 (illustration colour not consistent with DIN ISO 3864)

Parkir	ng space load	F1	F2	F3	F4	F5	F6
SP	2600 kg	+ 37.8 kN - 2.7 kN	+ 15.4 kN - 4.2 kN	± 1.9 kN	± 1.9 kN	± 2.7 kN	± 2.7 kN
DP	2600 kg	+ 67.5 kN - 5.6 kN	+ 24.8 kN - 5.7 kN	± 1.9 kN	± 1.9 kN	± 2.7 kN	± 2.7 kN

Туре	H1
CP2062-170	135
CP2062-185	150
CP2062-195	160
CP2062-205	170
CP2062-215	180

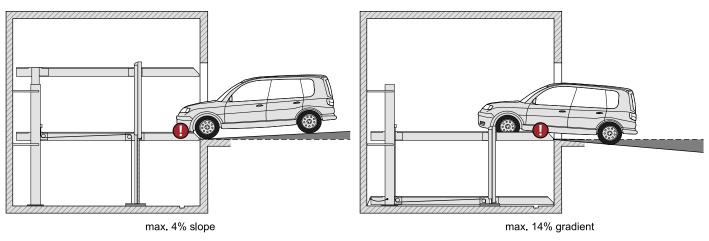


Access incline



The maximum access inclines specified in the symbol sketch must not be exceeded.

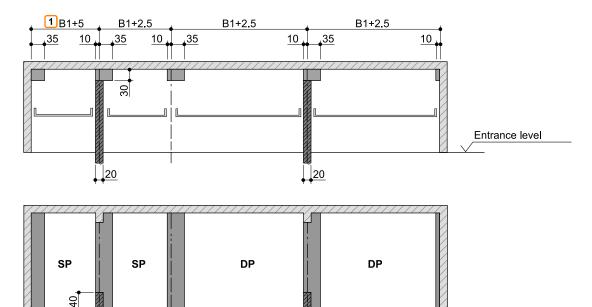
Improper configuration can lead to extreme difficulty accessing the system, for which KLAUS Multiparking cannot be held liable.



Clearance for installations



These clearances apply to vehicles parked forwards only, with exit on the left. The clearances must be adjusted for vehicles with exit on the right or parked in reverse.



1 Dimensions B1, B2 and B3 (see "Width dimension with door", page 5, "Width dimension without door", page 6)

≥20

B2

Clearance for lengthways cable routing

≥20

1 B2

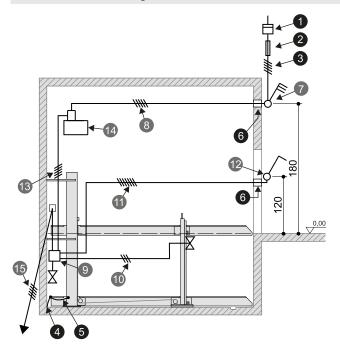
Clearance for vertical pipes, air ducts, etc.

1B3



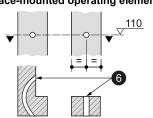
Electrical installation

Electrical installation diagram



On-site facilities for operating element

Surface-mounted operating element



Electrical specifications (services to be provided by the customer)

Nr.	Quantity	Designation	Position	Frequency
1	1	Power meter	in the supply cable	
		Pre-fuse:		
2	2 1	3x safety fuse 16 A (slow-blow) or Circuit breaker 3x 16 A (trip characteristic K or C)	in the supply cable	1x per 3.0 kW unit
		3x safety fuse 20 A (slow-blow) or Circuit breaker 3x 20 A (trip characteristic K or C)	in the supply cable	1x per 5.2 kW unit
3	1	Supply cable 5 x 2.5 mm 2 (3 PH+N+PE) with marked wires and protective earth	to master switch	1x per unit
4	every 10 m	Foundation earth connection	Corner of pit floor	
5	1	Equipotential bonding in accordance with DIN EN 60204 from foundation earth connection to system		1x per system
6	2	Empty pipe EN 25 (M25)		

Electrical specifications (KLAUS Multiparking scope of supply)

Nr.	Designation
7	Lockable master switch
8	Supply cable 5 x 2.5 mm² (3 PH+N+PE) with marked wires and protective earth
9	Unit junction box
10	Control cable 3 x 0.75 mm² with marked wires and protective earth
11	Control cable 7 x 1.5 mm² with marked wires and protective earth
12	Operating element
13	Control cable 4 x 2.5 mm² with marked wires and protective earth
14	Hydraulic unit 3.0 kW/5.2 kW, three-phase current 230/400 V / 50 Hz 1
15	Control cable 5 x 1.5 mm² with marked wires and protective earth to next system

1 5.2 kW unit for CP2062 2600 kg DP only



Technical information

Usage area

The system is suitable for a fixed group of users as standard.

Where users change - in the upper parking spaces only - (e.g. short-term parking in office buildings or hotels), structural modifications to the Multiparking system are required. Please request a consultation if required.

Units

Low-noise, bearing-mounted hydraulic units are installed on rubber-metal blocks. Consequently, we recommend separating the garage body from the residential building.

Ambient conditions

Ambient conditions for the areas around Multiparking systems:

Temperature range +5 to +40° C. Relative humidity 50 % for a maximum outside temperature of +40° C.

If ascent/descent times are specified, these relate to an ambient temperature of +10° C and with the system positioned immediately adjacent to the hydraulic unit. These times are increased at lower temperatures or with longer hydraulic lines.

Seismic conditions

The multiparking system is not suitable for local seismic conditions. Please observe local regulations and circumstances.

Building application documents

Multiparking systems generally require approval. Please observe local regulations and stipulations.

Care

To prevent corrosion damage, please observe our special cleaning and care instructions and ensure that your garage is well ventilated.

Corrosion protection

Our coating system was designed in accordance with DIN EN ISO 12944-5 Appendix A, Paint systems for corrosivity category C3. The powder coating was checked in accordance with DIN EN ISO 12944-6 and compliance with the requirements verified in test series. Zinc coatings are in accordance with DIN EN ISO 1461 and DIN EN 10346.

Railings

If the permissible fall opening is exceeded, railings must be installed on the systems. If there are roadways immediately adjacent to or behind the systems, the customer must provide barriers in accordance with DIN EN ISO 13857. This also applies during the construction stage.

CE conformity

The systems provided are consistent with DIN EN 14010 and the EC Machinery Directive 2006/42/EC.

Noise protection

Standard noise protection:

In accordance with DIN 4109-1 Noise protection in high-rise - Section 9: Maximum sound pressure level in living and sleeping areas 30 dB (A). User noise is not subject to the requirements.

The following dimensions are required for adherence to this value:

- Noise protection package in accordance with quote/order (KLAUS Multiparking)
- Sound insulation dimension of the building structure of min. R'w = 57 dB (service to be provided by the customer)

Increased sound protection (special agreement):

In accordance with DIN 4109-5 Increased noise protection in high-rise - Section 8:

Maximum sound pressure level in living and sleeping areas 25 dB (A). User noise is not subject to the requirements.

The following dimensions are required for adherence to this value:

- Noise protection package in accordance with quote/order (KLAUS Multiparking)
- Sound insulation dimension of the building structure of min. R'w = 62 dB (service to be provided by the customer)

Note:

User noise is noise that can be influenced individually by the user of our Multiparking systems. This includes, e.g., accessing the platform, the slamming of vehicle doors, engine and brake noise.



Performance specification

Description

Multiparking system for independent parking of 2 vehicles (single platform - SP), 2x 2 vehicles (double platform - DP) one on top of the other.

Dimensions in accordance with the underlying pit, width and height dimensions.

The parking spaces are accessed horizontally and have a slope of \pm 1° for proper drainage of the platforms.

Special configuration of the lift and support structure prevents hindrance to door opening.

Vehicle positioning in any parking space by positioning aid mounted on one side (to be adjusted in accordance with the operating instructions).

Control via an operating element with automatic reset by means of simultaneous key.

Operating element usually installed in front of the support or on the outside of the door reveal.

Concise instructions at each operating point.

Special dimensions must be observed in buildings with door.

Multiparking system comprising:

- 2 columns (secured to the floor)
- 2 sliders (with sliding guides secured to the columns)
- 2 platforms
- 1 mechanical synchronisation system (for synchronised operation of the hydraulic cylinders when lifting and lowering)
- 2 hydraulic cylinders
- 2 rigid supports (platform connection)
- 2 chains and chain diversion wheels
- Dowels, screws, connectors, bolts, etc.
- The platforms are continuously accessible.

Platforms comprising:

- Platform profiles
- Adjustable positioning aid
- Chamfered ramps
- Side beams
- Centre beam (DP only)
- Crossbeams (DP only)
- Railings (on the upper and lower platform if required)
- Screws, nuts, washers, spacers, etc.

Hydraulic system comprising:

- Hydraulic cylinders
- Magnetic valves
- Hydraulic lines
- Bolted connections
- High-pressure hoses
- Attachments

Electrical system comprising:

- Operating element (emergency-stop, key, 1 simultaneous key per parking space)
- Junction box on wall valve

Hydraulic unit comprising:

- Hydraulic unit (low-noise, fitted to bracket and bearing mounted on rubber-metal block)
- Hydraulic oil tank
- Oil filling
- Internal gear pump
- Pump holder
- Coupling
- Three-phase motor
- Noise protection, motor protection switch and control fuse
- Test pressure gauge
- Pressure relief valve
- Hydraulic hoses (to attenuate noise transmission to the hydraulic pipes)



Services to be provided by the customer

Barriers

Barriers that may be required in accordance with DIN EN ISO 13857 to secure the pits where there are roadways immediately in front of, adjacent to or behind the systems. This also applies during the construction stage. Railings on the systems, where required, are included as standard.

Parking space numbering

Parking space numbering, if required.

Building services systems

Any lighting, ventilation, fire-extinguishing and fire-alarm systems that may be required, plus clarification and compliance with corresponding official documentation.

Lighting

The customer must observe local regulations pertaining to the illumination of parking spaces and roadways. In accordance with DIN EN 12464-1 'Light and lighting - Lighting of work places', an illumination level of min. 200 lx is recommended for the parking spaces and operating area of the system.

Drainage

Functional drainage of the pit must be provided by means of, for example, a water collection channel towards the front that is connected to the sewer system or a pump sump. The channel may contain a lateral slope, but not in the other pit areas (lengthways slope is already provided by the building dimensions). In the interests of environmental protection, we recommend coating the pit floor. Oil and/or fuel separators should be installed in accordance with local regulations.

Strip foundations

Due to structural conditions, the customer must erect an accessible platform when constructing strip foundations, level with the upper edge of the strip foundation.

Warning marking

In accordance with DIN EN 14010, the customer must provide 10 cm wide, yellow/black marking in accordance with DIN ISO 3864 in the access area along the edge of the pit to identify the hazard area.

Wall openings

Any wall openings that may be required should be in accordance with the sectional drawings (see "Overview of building configuration", page 3).

Supply cable to master switch - foundation earth

The customer must lay the supply cable to the master switch during assembly. Functional capability can be checked by our engineers on site, in conjunction with the electronics engineer. If this is not possible during assembly for reasons attributable to the customer, the customer must commission an electronics engineer.

The customer must earth the steel structure with a foundation earth connection (earthing distance max. 10 m) and equipotential bonding in accordance with DIN EN 60204.

Operating element

Empty conduits and recesses for the operating element (*see "Electrical installation"*, *page* 9). Consultation with KLAUS Multiparking is required when using folding doors.

Subject to technical changes

In the course of technical progress, KLAUS Multiparking shall be entitled to use newer or different technologies, systems, processes or standards to provide the services than initially offered, provided that this does not disadvantage the customer in any way.

SpaceVario CP2062 590.03.380-001 | 09/2022 | English Manufacturer:

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