



## PRODUCT DATA

DIMENSIONS, TECHNICAL INFORMATION AND PERFORMANCE  
SPECIFICATION

# trend**vario** 6300



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## Explanation of symbols



Platforms accessible horizontally.



Maximum load per parking space in lbs.  
Upweights above 4,400 lbs possible with surcharge (see "Vehicle data", page 3).



Parking space load can be subsequently upweighted (see "Vehicle data", page 3).



Driven-through arrangement and can be combined with other TrendVario systems as a KombiSystem.

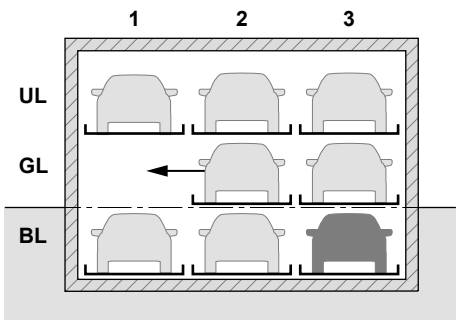


The quoted systems correspond to DIN EN 14010 and EU Machinery Directive 2006/42/EC.  
In addition, this system has undergone a voluntary conformity test by TÜV SÜD.

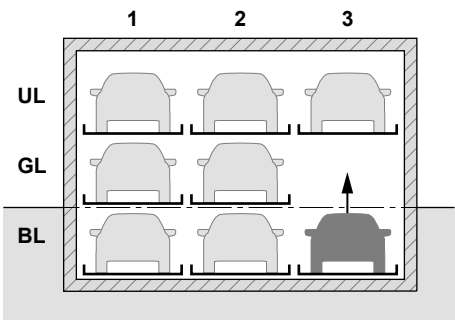
## Function diagram with standard designation



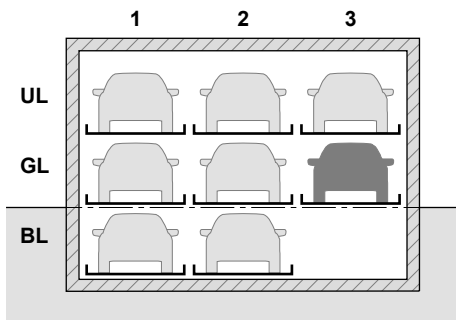
Example for vehicle on basement level (BL) of grid 3:  
Selection via the control panel; all doors must be closed.  
Representation of parking spaces in a row.



To remove the vehicle from the space in **grid 3/BL**, the GL platforms are moved to the left.



The empty space is now located above the vehicle being removed. The parking space in **grid 3/BL** is raised.



The vehicle in the space in **grid 3/BL** can now be removed.

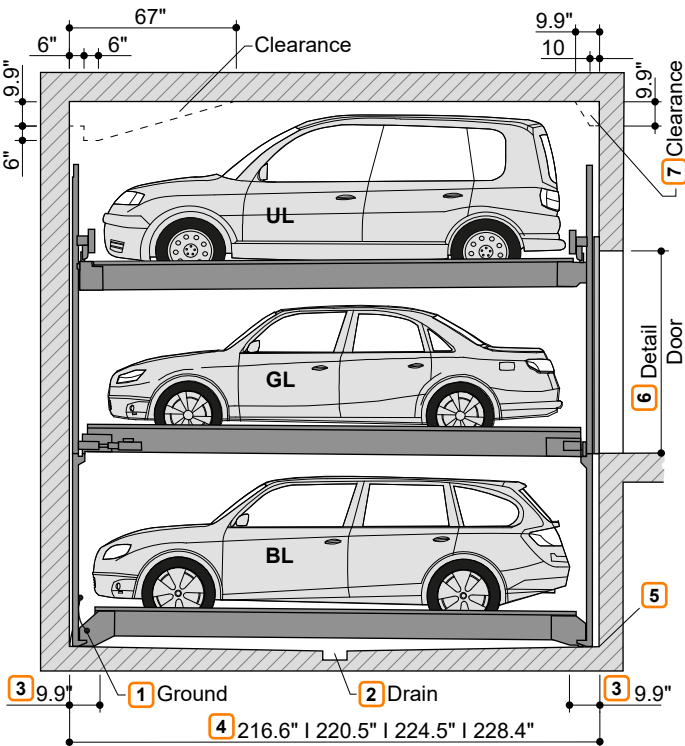
## Dimensional specifications & tolerances



All structural dimensions are minimum finished dimensions.  
Tolerance for structural dimensions: +1.2/-0". Dimensions in inches (in).  
The tolerances specified in the German Construction Contract Procedures (VOB), Part C (DIN 18330 and 18331) as well as DIN 18202 must also be taken into account in order to adhere to the minimum finish dimensions.

# Overview of building design

## Building configuration with sliding door standard 6



- 1 Equipotential bonding from the foundation ground connection to the system (provided by customer).
- 2 Slope with water collection channel(see "Drainage", page 14).
- 3 These areas must be horizontal and on the same level in the entire pit.
- 4
  - 216.6" for vehicles up to 196.9" in length
  - 220.5" for vehicles up to 200.8" in length
  - 224.5" for vehicles up to 204.8" in length
  - 228.4" for vehicles up to 208.7" in length
 Shorter designs possible upon request. Observe local regulations for parking space length!  
 So that you can conveniently use your parking space and due to the ever increasing length of vehicles, we recommend a pit length of at least 220.5".
- 5 Grooves/concrete haunches are not possible at the transition from the pit floor and the walls. If grooves/concrete haunches are required, then the system must be narrower or the pits wider.
- 6 Detail of door and additional door variants (see "Configuration sliding door standard", page 5 and see "Configuration sliding door plus", page 6).



If fire extinguishing systems are required, the customer must provide the necessary clearances.

# Vehicle data

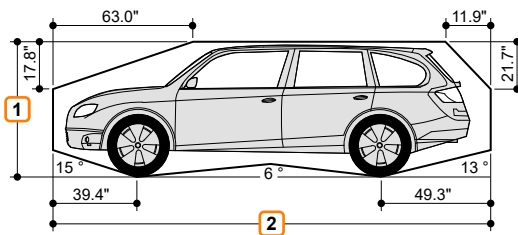
## Parking options

Production vehicles:  
Sedan, station wagon, SUV, and van as per clearance gauge and maximum parking space load.

	UL   GL   BL 3		
Weight 4	4400 lbs	5720 lbs	6600 lbs
Wheel load	1100 lbs	1430 lbs	1650 lbs

- 1 Vehicle height (see "Overview of system types & ceiling heights", page 4)
- 2 Vehicle length (see "Overview of building design", page 3)
- 3 UL = upper level | GL = ground level | BL = basement level
- 4 Individual parking spaces can also be subsequently upweighted to 6,600 lbs!

## Clearance gauge

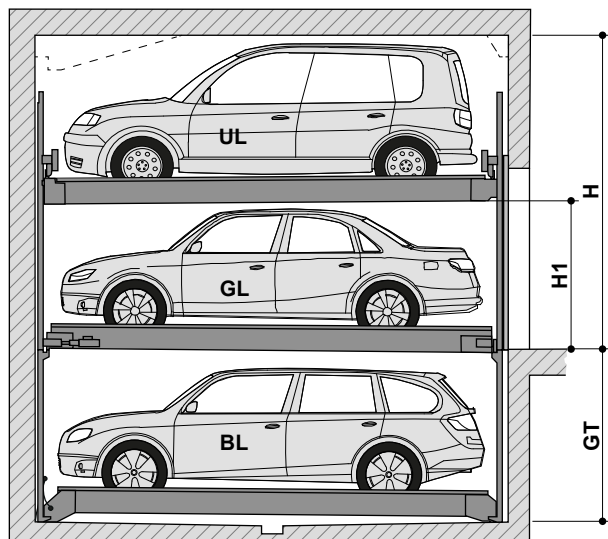


Vehicle width of 74.9" with a platform width of 90.6". Wider platforms allow correspondingly wider vehicles to be parked.

## Overview of system types & ceiling heights



The permissible GL vehicle height must be greater than or equal to the BL vehicle height.



GT: Pit depth

H: Building height:

H1: Headroom

Type	GT	BL vehicle height
6300 / 175	68.9"	59.1"
6300 / 180	70.9"	61.1"
6300 / 185	72.9"	63.0"
6300 / 190	74.9"	65.0"
6300 / 195	76.8"	67.0"
6300 / 200	78.8"	68.9"
6300 / 205	80.8"	70.9"
6300 / 210	82.7"	72.9"
6300 / 215	84.7"	74.9"
6300 / 220	86.7"	76.8"
6300 / 225	88.6"	78.8"
6300 / 230	90.6"	80.8"
6300 / 235	92.6"	82.7"
6300 / 240	94.5"	84.7"

H1	GL vehicle height	UL vehicle height														
		59.1"	61.1"	63.0"	65.0"	67.0"	68.9"	70.9"	72.9"	74.9"	76.8"	78.8"	80.8"	82.7"	84.7"	86.7"
61.1"	59.1"	128.0	130.0	131.9	133.9	135.9	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6
63.0"	61.1"	130.0	131.9	133.9	135.9	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5
65.0"	63.0"	131.9	133.9	135.9	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5
67.0"	65.0"	133.9	135.9	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5
68.9"	67.0"	135.9	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4
70.9"	68.9"	137.8	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4
72.9"	70.9"	139.8	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4
74.9"	72.9"	141.8	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3
76.8"	74.9"	143.8	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3
78.8"	76.8"	145.7	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3	173.3
80.8"	78.8"	147.7	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3	173.3	175.2
82.7"	80.8"	149.7	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3	173.3	175.2	177.2
84.7"	82.7"	151.6	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3	173.3	175.2	177.2	179.2
86.7"	84.7"	153.6	155.6	157.5	159.5	161.5	163.4	165.4	167.4	169.3	171.3	173.3	175.2	177.2	179.2	181.2

H - Building height

### Configuration example

#### Example configuration 1:

UL vehicle:	59.1"	▶▶▶	Type: <b>6300 / 200 - 195</b> Height: <b>143.8"</b>
GL vehicle:	74.9"		
BL vehicle:	68.9"		

#### Example configuration 2:

UL vehicle:	63"	▶▶▶	Type: <b>6300 / 205 - 165</b> Height: <b>Selection not possible!</b>
GL vehicle:	63.0"		
BL vehicle:	70.9"		



Configuration 2 is not possible as the maximum permissible vehicle on GL is smaller than the vehicle on BL. As such, the larger BL vehicle cannot drive in.

## Width and door height

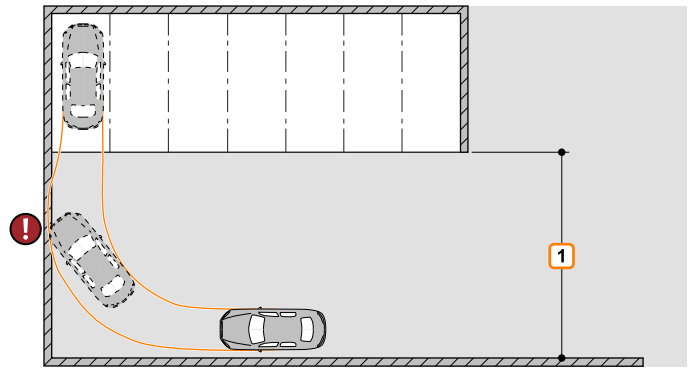


We recommend a platform width of at least 98.5" and driving lane widths of 256" to ensure convenient vehicle access to the multiparking system and easy entry into and exit from the vehicle.

Narrower platforms can make parking more difficult, depending on the following criteria.

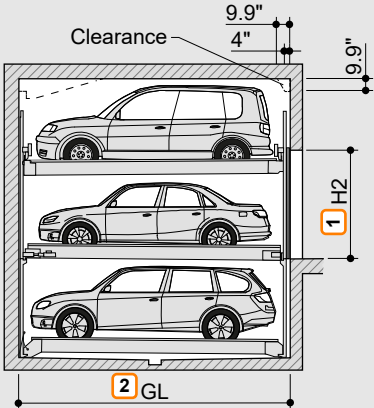
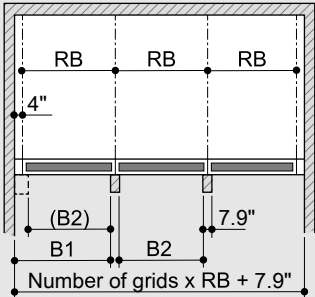
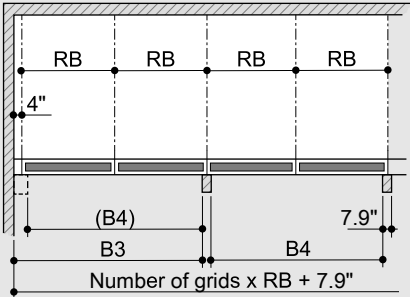
- Driving lane width
- Entry conditions
- Vehicle dimensions

- 1 Observe the minimum driving lane width specified by local regulations!



For commercial use of doors with electrical drive systems, an inspection log is required in accordance with ASR A1.7 "Technical Rules for Workplaces" in Germany. The door must be inspected by an expert before commissioning and annually thereafter and the result entered in the inspection log. The inspection must be carried out independently of maintenance. Observe local regulations regarding the operation of electrical doors.

### Configuration sliding door standard

	Door variant					Supports per grid					Supports per second grid				
Sliding door standard															
	Clear platform width		RB <span>3</span>			Support per grid					Support per second grid				
						B1	B2				B3	B4			
Width dimensions	90.6"		98.5"			98.5"		90.6"		196.9"		189.0"			
	94.5"		102.4"			102.4"		94.5"		204.8"		196.9"			
	98.5"		106.3"			106.3"		98.5"		212.6"		204.8"			
	102.4"		110.3"			110.3"		102.4"		220.5"		212.6"			
	106.3"		114.2"			114.2"		106.3"		228.4"		220.5"			
	Max. vehicle height UL   GL														
	59.1"	61.1"	63.0"	65.0"	67.0"	68.9"	70.9"	72.9"	74.9"	76.8"	78.8"	80.8"	82.7"	84.7"	86.7"
H2	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	84.7"	86.7"	88.6"	90.6"

1 Observe the minimum clear height H2 specified by local regulations.

2 GL = building length (see "Overview of building design", page 3).

3 RB = grid width. These dimensions **must** be adhered to!

## Configuration sliding door plus

	Door variant	Supports per grid	Supports per second grid
Sliding door plus behind the supports			
Sliding door plus inside the supports		Not possible!	
Sliding door plus in front of the supports			

	Clear platform width	RB <sup>3</sup>	Support per grid		Support per second grid	
			B1	B2	B3	B4
Width dimensions	90.6"	98.5"	98.5"	90.6"	196.9"	189.0"
	94.5"	102.4"	102.4"	94.5"	204.8"	196.9"
	98.5"	106.3"	106.3"	98.5"	212.6"	204.8"
	102.4"	110.3"	110.3"	102.4"	220.5"	212.6"
	106.3"	114.2"	114.2"	106.3"	228.4"	220.5"

	Max. vehicle height UL   GL														
	59.1"	61.1"	63.0"	65.0"	67.0"	68.9"	70.9"	72.9"	74.9"	76.8"	78.8"	80.8"	82.7"	84.7"	86.7"
H2	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	84.7"	86.7"	88.6"	90.6"	92.6"
H3	86.7"	86.7"	86.7"	86.7"	86.7"	86.7"	86.7"	86.7"	86.7"	86.7"	88.6"	90.6"	92.6"	94.5"	96.5"
H4	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	82.7"	84.7"	86.7"	88.6"	90.6"	92.6"

<sup>1</sup> Observe the minimum clear height H2/H3/H4 specified by local regulations.

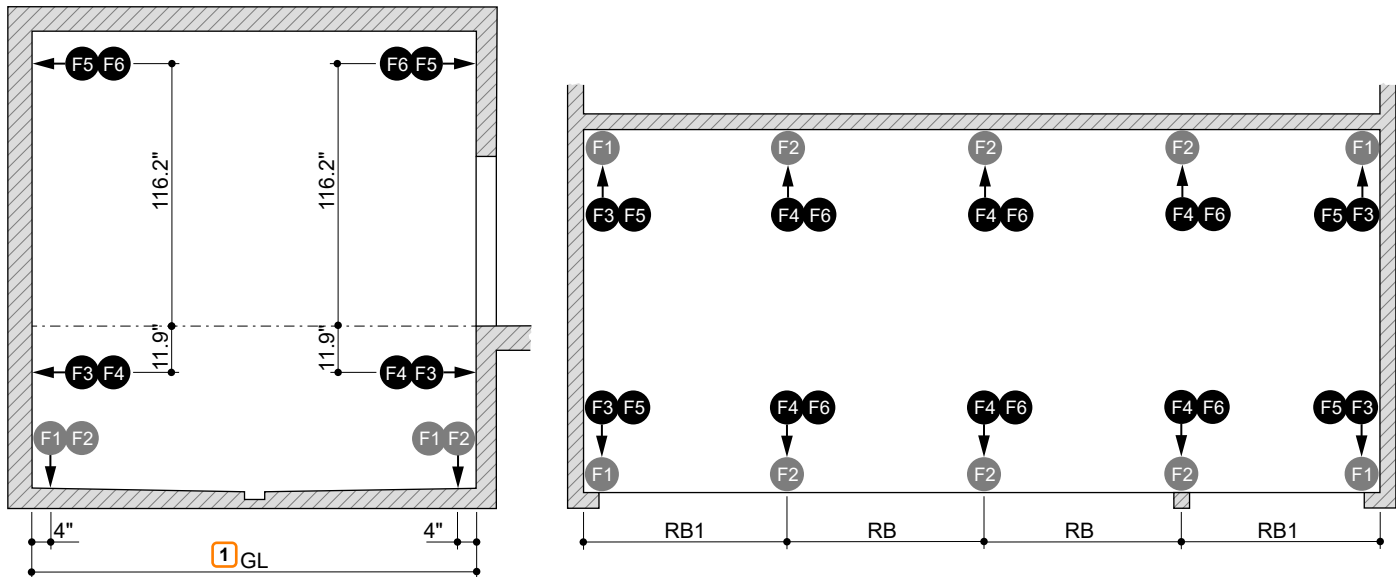
<sup>2</sup> GL = building length (see "Overview of building design", page 3).

<sup>3</sup> RB = grid width. These dimensions **must** be adhered to!

Loading schedule



The systems are doweled to the floor. The drill hole depth in the floor plate is approx. 6", in the walls approx. 4.8".  
The floor plate and walls must be of concrete (concrete quality min. C20/25)!  
The dimensions for the bearing points have been rounded. If you need to know the exact position, please contact KLAUS Multiparking.



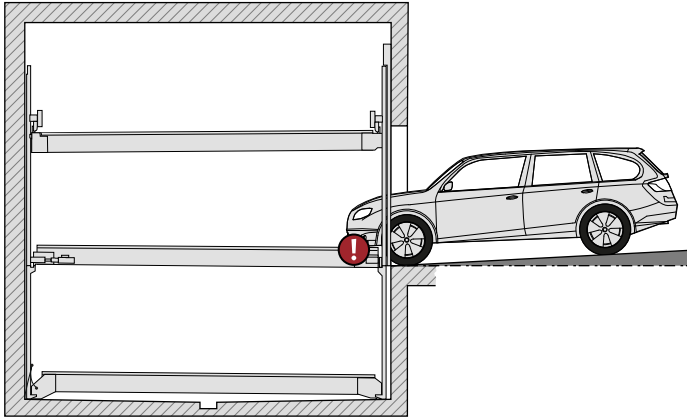
Parking space load	F1	F2	F3	F4	F5	F6	Clear plat- form width	RB <sup>2</sup>	RB1
4400 lbs	+ 9218 lbf - 2653 lbf	+ 12140 lbf - 5306 lbf	± 652 lbf	± 1304 lbf	± 113 lbf	± 225 lbf	90.6"	98.5"	102.4"
5720 lbs	+ 10567 lbf - 3193 lbf	+ 21133 lbf - 6340 lbf	± 675 lbf	± 1349 lbf	± 180 lbf	± 360 lbf	94.5"	102.4"	106.3"
6600 lbs	+ 11466 lbf - 3552 lbf	+ 22931 lbf - 7104 lbf	± 697 lbf	± 1394 lbf	± 225 lbf	± 450 lbf	98.5"	106.3"	110.3"
							102.4"	110.3"	114.2"
							106.3"	114.2"	118.2"

- <sup>1</sup> GL = building length  
<sup>2</sup> RB = grid width. These dimensions **must** be adhered to!

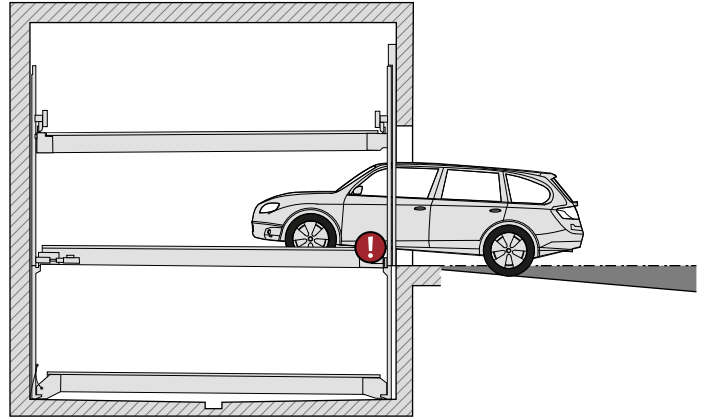
## Entrance inclination



The maximum entry inclinations specified in the sketch must not be exceeded.  
An incorrect design can make driving into the system considerably more difficult, for which KLAUS Multiparking is not responsible.  
A drainage channel at the entrance is recommended for aboveground garages on a slope.

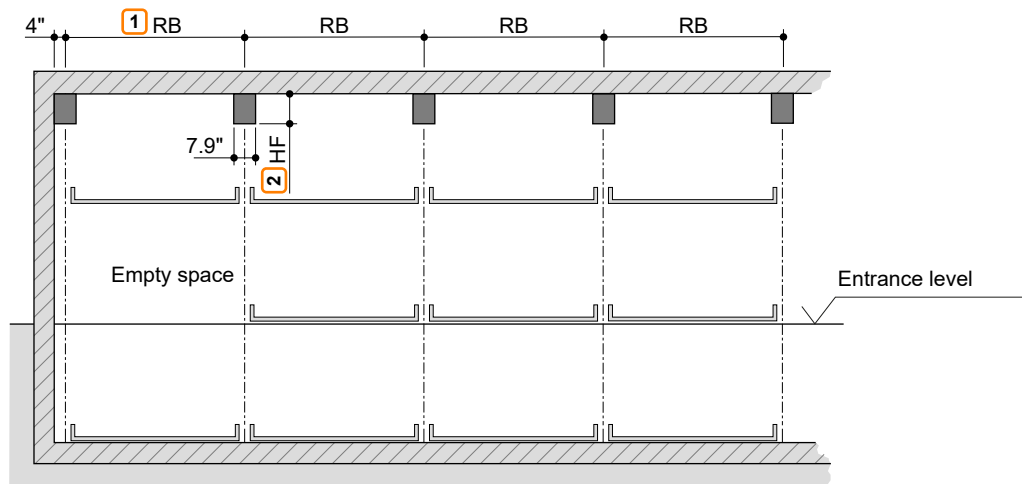


Max. slope: 3%



Max. gradient: 5%

## Clearances for installations




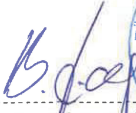

1 RB = grid width. These dimensions **must** be adhered to!

2 HF: Altura de espacio libre = altura de edificio (H) - 120,1" | donde HF máx. = 17,8" (see "Overview of system types & ceiling heights", page 4).

■ Clearance for routing lines lengthways

## CE conformity

The quoted systems correspond to DIN EN 14010, to specification VDMA 15423 and to EU Machinery Directive 2006/42/EC. In addition, this system has undergone a voluntary conformity test by TÜV SÜD.

<p>ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ CERTIFICADO ◆ CERTIFICAT</p>	 Industrie Service
<h3>Certificate concerning the examination of conformity</h3>	
<b>Certificate no:</b>	CA 696
<b>Certification body:</b>	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 München – Germany
<b>Applicant / Certification holder:</b>	KLAUS Multiparking GmbH Hermann-Krum-Str. 2 88319 Aitrach – Germany
<b>Manufacturer:</b>	KLAUS Multiparking GmbH Hermann-Krum-Str. 2 88319 Aitrach – Germany
<b>Product:</b>	Equipment for power driven parking of motor vehicles
<b>Type:</b>	TrendVario 6100 / 6100+ and 6300 / 6300+ 2.000 kg, 2.600 kg, 3.000 kg
<b>Directive:</b>	2006 / 42 / EC, Annex I
<b>Test specifications:</b>	DIN EN 14010:2003+A1:2009
<b>Date and number of the test report / mark of conformity:</b>	No. CA 696 from 2023-03-17
<b>Result:</b>	The equipment fulfills the requirements of the test specifications for the respective scope of application stated in the annex (page 1) of this certificate, keeping the mentioned conditions.
<b>Date of issue:</b>	2023-03-31
<b>Validity:</b>	2028-03-30
 Bernd Gründling Zertifizierstelle der Fördertechnik	
	
TÜV®	

## Electrical installation

### Switch cabinet and master switch

Access to the switch cabinet (23,7" x 23,7" x 8,3") must be possible without danger. The lockable master switch must be positioned in such a way that the entire entrance area of the facility can be overlooked.

With wall opening from switch cabinet to system (consultation with KLAUS Multiparking required).

### Hydraulic unit

- 4.0 kW, three-phase current 120/208 V AC / 60 Hz / 15.6 A

#### Alternative version (surcharge applies):

- One hydraulic unit per row (4 kW) for shorter access times.

### Supply cable to master switch

#### Sliding doors standard

##### One single hydraulic unit:

On-site supply cable min. 5 X AWG 12 (3 PH+N+PE) to master switch with pre-fuse 3 x 20 A (time-lag) or circuit breaker 3 x 20 A (tripping characteristic K).

National as well as local laws and regulations on power supply must be adhered to (see "Supply cable to the master switch – foundation ground", page 14).

#### Sliding doors plus

##### One single hydraulic unit:

On-site supply cable min. 5 X AWG 12 (3 PH+N+PE) to master switch with pre-fuse 3 x 20 A (time-lag) or circuit breaker 3 x 20 A (tripping characteristic J).

National as well as local laws and regulations on power supply must be adhered to (see "Supply cable to the master switch – foundation ground", page 14).

### Control panel with emergency-stop

- Attachment at a clear point (e.g. pillar).
- Secured against third-party operation.

## Technical information

### Area of use

In general, the system is best suited for a fixed group of users. Where users change (e.g. short-term parking in office buildings or hotels), structural modifications to the Multiparking system are required. If needed, please contact us.

### Units

Low-noise power units mounted to rubber-bonded-to metal mountings are installed. Nevertheless, we recommend separating the garage body from the residential building.

### Parking space designation

Please consult the function diagram for the standard designation of the parking spaces (see *"Function diagram with standard designation"*, page 2). Alternative designations are only possible with a surcharge.

Please note the following specifications:

- The empty space is situated on the left as standard.
- Notification of alternative designations must be received 8 to 10 weeks before delivery.

### Environmental conditions

Environmental conditions for the area of multiparking systems. Temperature range +14 to +104 °F. Relative humidity 50% and a maximum outside temperature of +104 °F. If raising and lowering times are specified, they refer to an ambient temperature of +50° F and a system arranged directly next to the hydraulic unit. These times increase at lower temperatures or with longer hydraulic lines.

### Building permit documents

Multiparking systems are usually subject to approval. Please observe local regulations and ordinances in this regard.

### Care

To prevent corrosion damage, please observe our separate cleaning and care instructions, and make sure that your garage is well ventilated.

### Corrosion protection

As per "Corrosion Protection Information" supplement.

### Electrically driven doors

For commercial use of doors with electrical drive systems, an annual inspection is required in accordance with ASR A1.7 "Technical Rules for Workplaces" in Germany. We urgently recommend concluding a maintenance contract as these services are included for the complete system.

### CE conformity

The quoted systems correspond to DIN EN 14010 and EU Machinery Directive 2006/42/EC. In addition, this system has undergone a voluntary conformity test by TÜV SÜD.

### Noise protection

#### Normal noise protection:

As per DIN 4109-1 "Sound Insulation in Buildings – Part 1: Minimum Requirements," section 9:

The maximum sound pressure level in living and sleeping spaces is 30 dB (A).

User noises are not subject to the requirements.

The following actions are required to comply with this value:

- Noise protection package as per quotation/order (KLAUS Multiparking)
- Sound reduction index of the structure at least  $R'w = 57$  dB (customer-provided performance)

#### Increased noise protection (separate agreement):

As per DIN 4109-5 "Sound Insulation in Buildings – Part 5: Increased Requirements," section 8:

Maximum sound pressure level in living and sleeping spaces 25 dB (A).

User noises are not subject to the requirements.

The following actions are required to comply with this value:

- Noise protection package as per quotation/order (KLAUS Multiparking)
- Sound reduction index of the structure at least  $R'w = 62$  dB (customer-provided performance)

#### Note:

User noises are noises that can be influenced individually by the user of our multiparking systems. This includes, e.g., driving onto the platform, slamming vehicle doors, engine noises and breaking noises.

## Performance specification

### Description

Multiparking system for independent parking of vehicles one on top of the other and next to one another.

Dimensions as per the underlying pit, width and height dimensions.

Access to the parking spaces horizontally (installation tolerance  $\pm 1\%$ ).

Access must be provided over the entire width of the system (minimum driving lane width in accordance with local regulations).

The parking spaces are arranged on 3 levels one on top of the other. Vehicles park on stable steel platforms.

The platforms on the basement level (BL) and upper level (UL) move vertically, while the platforms on the ground level (GL) move horizontally. At entrance level (GL), there is always 1 parking space less. This empty space is used for the sideways movement of the GL parking spaces to allow a parking space above on the UL or on the BL below to rise or lower to entrance level. Consequently, 5 parking spaces (2 on UL, 1 on GL, 2 on BL) is the smallest unit for this parking system.

A vehicle positioning aid is mounted on one side of each parking space (must be adjusted as per operating instructions).

For safety reasons, the movement operation of the platforms always takes place behind locked doors.

All requisite safety equipment is integrated into the system. This essentially comprises a chain monitoring system, locking levers for the upper and lower platforms and locked doors. The doors can only be opened when the selected parking space has reached its parking position and all fall openings are secure.

### Steel frame (secured in the pit) comprising:

- Supports (arranged in rows)
- Crossbeams and lengthways beams
- Sliding rails for the sideways moving GL platforms

### Platform comprising:

- Platform profiles
- Adjustable positioning aid
- Chamfered access plate
- Side beams
- Crossbeams
- Bolts, nuts, washers, spacer tubes, etc.

### Lifting equipment for platforms on the UL and BL comprising:

- Hydraulic cylinders with solenoid valves
- Chain wheels
- Chains
- Limit switches
- The platforms are each suspended at 4 points and are guided at the supports by means of plastic plain bearings.

### Drive unit for sideways moving platforms on GL:

- Gear motor with chain wheel
- Chains
- Sliding and guide rollers (low-noise)
- Power supply via energy chain

### Hydraulic unit consisting of:

- Hydraulic unit (low-noise, mounted on a console with rubber-bonded-to-metal mountings)
- Hydraulic oil tank
- Oil fill
- Internal gear pump
- Pump carrier
- Coupling
- Three-phase motor
- Contactor, motor protection switch and control fuse
- Test pressure gage
- Pressure relief valve
- Hydraulic hoses (damping of noise transmission to the hydraulic pipes)

### Control:

- Central control point (control panel with emergency-stop) for selecting the desired parking space
- The electrical wiring from the system cabinet is provided by the supplier.

### Sliding doors standard:

#### Size

Dimensions adjusted to the underlying widths and height dimensions.

The door comprises two door leaves.

#### Frame

- Frame structure with two vertical center rungs made of extruded aluminum profile (anodized, coating thickness approx. 0.8 mil)
- There is a rubber lip on the closing edge for a clean seal with the building.

#### Door filling

Aluminum perforated plate

- Thickness /0.06", RV 8-14 E6/EV1, anodized, coating thickness approx. /0.8 mil
- Ventilation cross-section of the filling approx. 30%

Plain aluminum sheet

- Thickness 0.08" E6/EV1, anodized, coating thickness approx. 20  $\mu$ m

Wire mesh

- Thickness 0.12", mesh size 12 x 12 mm, V2A

#### Sliding rails

The ceiling and floor sliding rails of the doors are attached to the steel frame of the system.

#### Door actuation

■ Electrical drive system by means of electric motor, above the door frame. For safety reasons, the movement operation of the platforms always takes place behind locked doors. An electrical signal generator is used to query the positions "door open" and "door closed."

#### Please note:

Door trim (at the side, covers over the sliding rails, etc.) and door suspensions are not included with the standard configuration but can be supplied as special equipment for a surcharge.

## Sliding doors plus:

### Size

- Sliding doors, size approx. 98.5" x 78.8" (width x height).

### Frame

- Frame structure with one vertical center rung made of extruded aluminum profile (anodized, coating thickness approx. 0.8 mil)
- A handle shell is provided in a vertical aluminum profile for opening the doors.
- There is a rubber lip on the closing edge for a clean seal with the building.

### Standard door filling

#### Aluminum perforated plate

- Thickness 0.08", RV 5-8 E6/EV1, anodized, coating thickness approx. 0.8 mil
- Ventilation cross-section of the filling approx. 40%

### Alternative door filling

#### Plain aluminum sheet

- Thickness 0.08" E6/EV1, anodized, coating thickness approx. 0.8 mil

#### Corrugated steel sheet

- Thickness 0.04", galvanized, coating thickness approx. 0.8 mil
- Additional powder coating, coating thickness approx. 1 mil on the outside and approx. 0.5 mil on the inside
- Color options on the outside (building view):
 

RAL 1015 (light ivory)	RAL 3003 (ruby red)
RAL 5014 (pigeon blue)	RAL 6005 (moss green)
RAL 7016 (anthracite grey)	RAL 7035 (light grey)
RAL 7040 (window grey)	RAL 8014 (sepia brown)
RAL 9006 (white aluminum)	RAL 9016 (traffic white)

- Door inside in a light grey tone

#### Wood filling

- Nordic spruce, grade A
- Vertical tongue and groove boards
- Colorless, pre-impregnated

#### Composite safety glass

- Composite safety glass made of tempered glass 0.32"/0.16"

#### Wire mesh

- Mesh size 0.5" x 0.5"
- Wire diameter 0.08", galvanized, coating thickness approx. 0.8 mil
- Ventilation cross-section of the filling approx. 70%

### Sliding rails

- The running gear comprises 2 double-pair roll systems per door, height-adjustable.
- The sliding rails of the doors are attached to brackets with cover bushings or directly to the concrete lintel or a building-specific door suspension.
- The lower guide comprises 2 plastic rollers on a base plate which is dowelled to the floor.
- Sliding rails, cover bushings, and guide roller base plate are galvanized.

### Door actuation

- Electrical drive system by means of electric motor attached to the rail system at the turning point of the sliding doors. The drive pinion engages a chain attached to the door.

For safety reasons, the movement operation of the platforms always takes place behind locked doors. An electrical signal generator is used to query the positions "door open" and "door closed."

### Separation (if required)

- On request

### Please note:

Door trim (at the side, cover over the sliding rails, etc.) and door suspensions are not included with the standard configuration but can be supplied as special equipment for a surcharge.

## Performances provided by customer

### Barriers

Any barriers required to secure the parking system pit due to traffic routes located immediately in front of, next to or behind the systems as per DIN EN ISO 13857. This applies during the construction phase as well.

### Parking space numbering

Any parking space numbering required.

### Technical building systems

Any required lighting, ventilation, fire extinguishing systems and fire alarm systems, as well as clarification and fulfillment of the associated legal requirements.

### Lighting

The customer must observe local regulations regarding the lighting of parking spaces and roadways. As per DIN EN 12464-1 "Light and Lighting – Lighting of Work Places – Part 1: Indoor Work Places" an illuminance of at least 200 lx is recommended for parking spaces and the operating area of the system. A dry contact can be provided for actuation of parking space lighting provided by the customer.

### Drainage

Functional drainage of the pit must be provided by means of, for example, a water collection channel towards the center that is connected to the sewer system or a pump sump. A lateral slope is possible within the channel but not in the rest of the pit area (a lengthways slope is provided by the structural dimension). As an environmental protection measure, we recommend that the pit floor be painted. Oil or gasoline separators must be appropriately taken into account as per local regulations when the drain is attached to the sewer system.

### Strip foundations

If strip foundations are used for structural reasons, the customer must construct a walkable platform at the height of the upper edge of the strip foundations so that the assembly work can be performed.

### Wall openings

Wall openings, if required.

### Supply cable to the master switch – foundation ground

The customer must provide the supply cable to the master switch during assembly. Our fitter can check functionality on site together with the electronics technician. If this is not possible during assembly due to reasons for which the customer is responsible, then the customer must contract an electronics technician.

The customer must ground the steel structure using the foundation ground connection (max. ground distance 393.8") and equipotential bonding as per DIN EN 60204.

### Door suspensions

Please note that if the specified clear heights (see "Width and door height", page 5) are not adhered to, additional measures for door attachment (door suspensions) will be required for a surcharge.

### Door trim

Door trim, if required. This may be requested from KLAUS Multiparking for a surcharge.

## Right to technical changes reserved.

In carrying out its performances in the course of technical progress, KLAUS Multiparking is free to use new or different technologies, systems, processes or standards than those initially quoted, provided this does not result in any disadvantages for the customer.

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