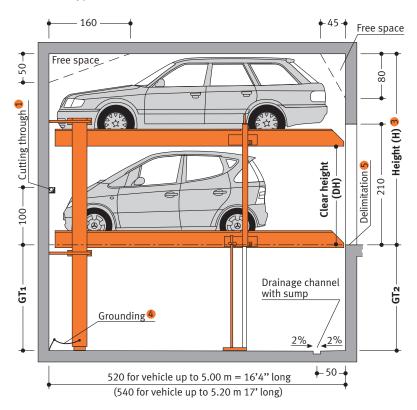
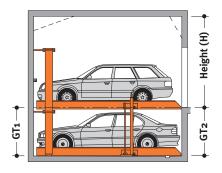
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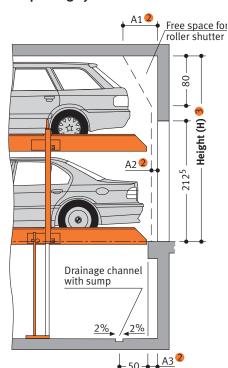
Standard Type 2062-185



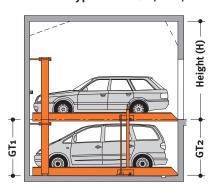
Compact Type 2062-170



Garage with door in front of the car parking system



Exklusive Type 2062-195/205/215



Notes

- 1 For dividing walls: cutting through 10 x 10 cm (for pipes).
- Dimensions A1, A2 and A3 must be coordinated with the door supplier.
- If the total height is greater, the max. vehicle height for the upper parking space increases accordingly.
- Potential equalization from foundation grounding connection to system (provided by the customer).
- 5 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).
- Load increase possible only for EB against surcharge.

Product Data Stack Parker



2062

Dimensions:

All space requirements are minimum finished dimensions. Tolerances for space requirements $^{+3}_{0}$. Dimensions in cm.

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

Туре	Н	DH	GI1	GI2
2062-170	325	156	170	175
2062-185*	340	171	185	190
2062-195	350	181	195	200
2062-205	360	191	205	210
2062-215	370	201	215	220
* = standard type	** = with	nout car		

Suitable for:

Standard passenger car and station wagon. Height and length according to contur.

		car height		
Туре	Н	upper	lower	
2062-170	325	150	150	
2062-185*	340	150	165	
2062-195	350	150	175	
2062-205	360	150	185	
2062-215	370	150	195	
* = standard type				

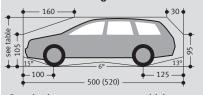
width	1,90 m
weight ⁶	max. 2000 kg ***
wheel load	max. 500 kg ***

*** = Special design: EB max. 2500 kg/wheel load max. 625 kg

Standard passenger car 13°

500 (520)

Standard station wagon



Standard passenger cars are vehicles without any sports options such as spoilers, low-profile tyres etc.

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Width for basement garage

B₁

260

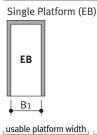
270

280

290

300

Dividing walls



230 *

240

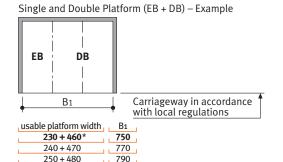
250

260



Double Platform (DB)

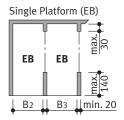
†	
usable platform width	B1
460 *	490
470	500
480	510
490	520
500	530

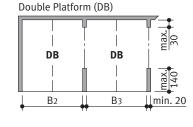


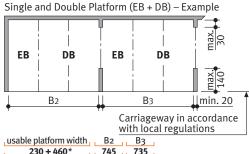
810

830

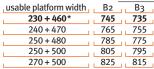
Columns in pit







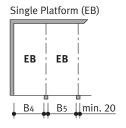
usable platform width	B2	B3
230 *	255	250
240	265	260
250	275	270
260	285	280
270	295	290

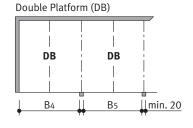


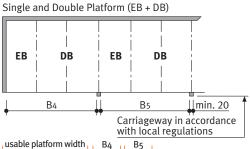
250 + 500

270 + 500

Columns outside pit







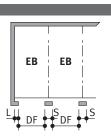
usable platform width	B4	B5
230 *	250	240
240	260	250
250	270	260
260	280	270
270	290	280

usable platform width	В4	B5
460 *	480	470
470	490	480
480	500	490
490	510	500
500	520	510

usable platform width	B4	В5 г
230 + 460*	740	730
240 + 470	760	750
250 + 480	780	770
250 + 500	800	790
270 + 500	820	810

Widths for garage with door in front of car parking system

Single platform (EB) EB



of vehicle, approach and above all on the individual driver's skill.

A₃ = seat-engaging surface (dimensions require coordination with door supplier.)

Allround door coordination between door supplier and local agency of Klaus Multiparking.

Double platform (DB)					
DB I	<u> </u>	 DB 		 DB 	
т т	T		Carriage with loc	eway in al regu	accord lations

accordance

usable platform width	door entrance width DF		S
230 *	237 ⁵	12 ⁵	25
240	250	12 ⁵	25
250	250	15	30
260	260	15	30
270	270	15	30

usable platform width door entrance width DF

Please note:



End parking spaces are generally more difficult to drive into. Therefore we recommended for end parking spaces our wider platforms. For the greatest possible ease-of-use, we recommend platform widths of 250 to 270 (EB) or 500 (DB). Parking on standard width platforms with larger vehicles may make getting into and out of the vehicle difficult. This depends on type

⁴⁶⁰ 460 1 15 470 475 12⁵ 25 175 480 475 12⁵ 490 500

^{* =} standard width (parking space width 2.30 m)

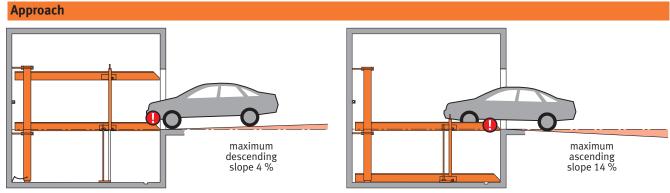
^{1 =} no standard width for doors!

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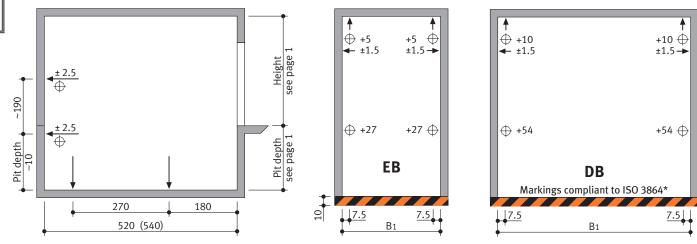
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To be performed by the customer
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The illustrated maximum approach angles must not be exceeded. Incorrect approach angles will cause serious maneouvring & positioning problems on the parking system for which the local agency of Klaus accepts no responsibility.

Load plan

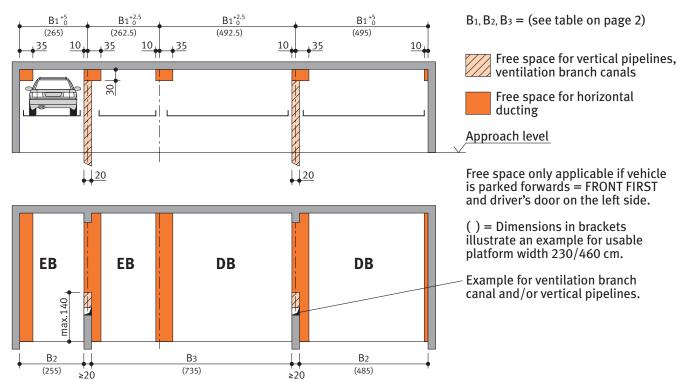
Forces in kN



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)!

Installation data

Free space for longitudinal and vertical ducts (e.g. ventilation)



^{* =} Colors used in this illustration are not ISO 3864 compliant

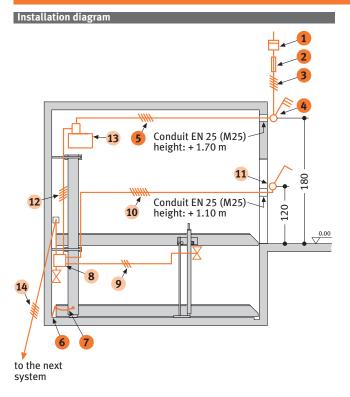
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Electrical installation



Ele	Electrical data (to be performed by the customer)			
No.	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 ² (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 ² (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

Elec	trical data (included in delivery of Klaus Multiparking)
No.	Description
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 3.0 kW, three-phase current, 400 V / 50 Hz
14	Control line 5 x 1.5 mm ² with marked wire and protective conductor

Technical data

Range of application

Generally, this parking system is not suited for short-time parkers (temporary parkers). Please do not hesitate to contact your local KLAUS agency for further assistance.

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

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.

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 $\pm 10^{\circ}$ C and with the system set up directly next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times increase.

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 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):

DIN 4109, Amendment 2, 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

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

Lighting, ventilation, fire extinguishing and fire alarm systems.

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 14 010, 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 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).

Operating device

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

Operating device exposed 110 above carriageway level Conduit EN25 (M25) Operating device concealed 120 above carriageway level OR 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) 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 horinzotally (installation deviation ± 1%).

Due to the special lifting and bearing construction lifting of the doors is not restricted.

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 (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)
- 2 chains and pocket wheels
- 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!

Platforms consisting of:

- Platform base sectionsAdjustable wheel stops
- Canted access plates
- Side members
- Central side member [only DB]
- Cross members [DB long and short 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)
- Hydraulic oil reservoir
- Oil filling
- Internal geared wheel pump
- Pump holder
- Clutch
- 3-phase-AC-motor (3.0 kW, 230/400 V, 50 Hz)
- 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

The Klaus company 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.