

data sheet **DE-38**

DE-38 is our moderate parking-system with an interactive control. The option of a double platform provides a very efficient installation and space use without pillars in between.

A2

EASY TO PLAN by a space saving construction.

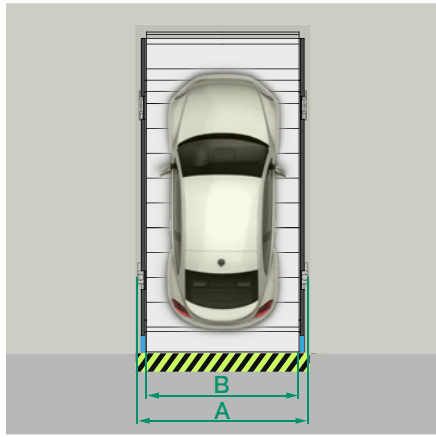


EASY TO INSTALL by a minimized parts construction.



EASY TO USE by a barrier free construction.





1. WIDTH OF PARKING SPACE / SYSTEM (IN CM)

A = system width ^{1*}

B = usable parking space width

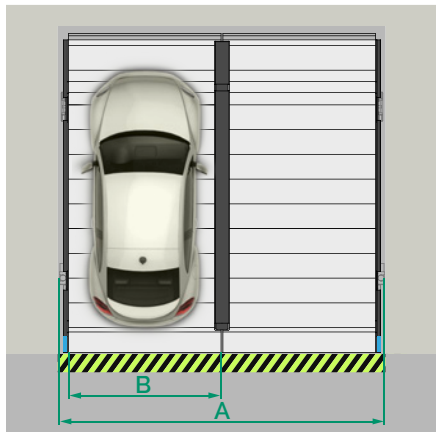
Single

A	B
260	230
270	240
280	250

Double

A	B
490	230
510	240
530	250

^{1*} Tolerance of dimensions on the construction site = 0 to + 3 cm.
Other system widths are available on request.



2. DIMENSIONS (IN CM)

D = pit depth ^{2*}

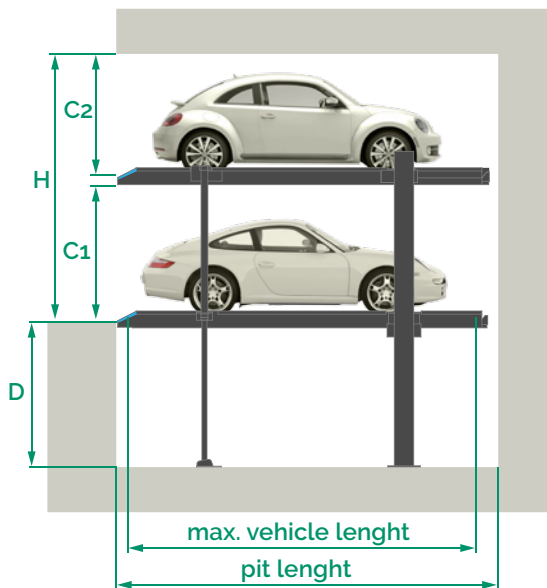
H = clear height

C1/C2 = vehicle height bottom / top ^{3*}

D	C1	H	C2
170 -->	150	320 -->	150
185 -->	165	335 -->	150
200 -->	185	350 -->	150
.....↑			

^{2*} Other / larger pit depths are available on request.

^{3*} The vehicle height with roof rails, antenna and other height increases must not exceed the listed max. vehicle heights.



3. TECHNICAL DATA

Maximum vehicle weight

- 2000kg / 500kg wheel load
- 2600kg / 650kg wheel load

Height

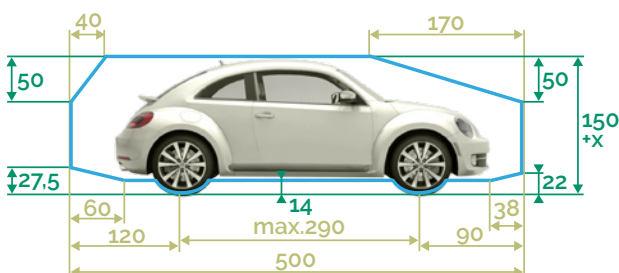
In case of larger ceiling height, higher vehicles can be parked on the top platform accordingly.

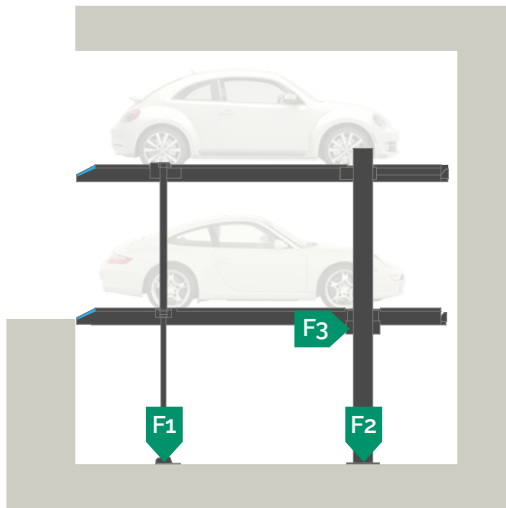
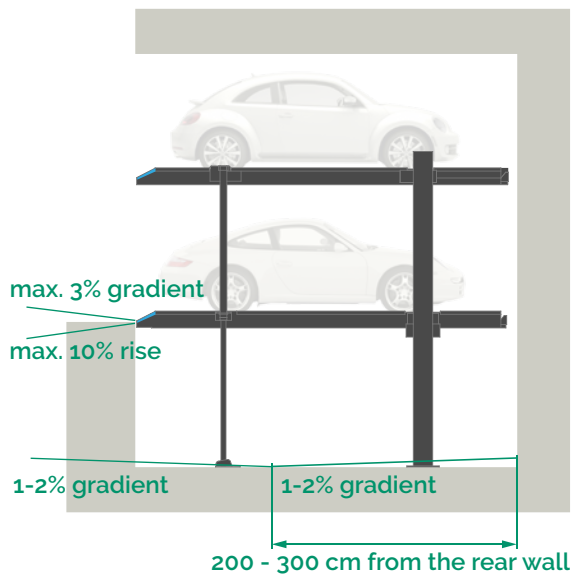
Pit length

A pit length of 530 cm is necessary for a 500 cm car, but 540 cm are recommended. This enables larger safety distances, if newer, longer vehicles are purchased.

Dimensions

- All dimensions are minimum finished dimensions in cm.
- Allow for tolerances to VOB Part C (DIN 18330, 18331) and additionally DIN 18202 (+ 30 mm / 0 mm).
- In case of partition walls, 15 x 15 cm opening for electrical cables and hydraulic pipes, do not close off opening after installation.





4. ACCESS CONDITIONS

Maximum gradient / rise

- Max. 3% gradient ^{4*}
- Max. 10% rise ^{4*}

Drainage

- 1-2 % gradient on the pit floor

^{4*} In case of higher values, safe access of the vehicle cannot be guaranteed by DE-PARK.

5. ACTIONS ON THE STRUCTURE

Single

	2000 kg	2600 kg
F1	25 kN	32 kN
F2	15 kN	20 kN
F3	1 kN	1 kN

Double

	2000 kg	2600 kg
F1	45 kN	60 kN
F2	25 kN	30 kN
F3	1 kN	1 kN

- The forces apply to one pillar.
- If pillars are next to each other the figures double, as both pillars are fixed in one point.

6. ANCHORING

- Systems are anchored into the floor. The hole depth is approximatively 13 cm.
- The quality of the concrete in the structure (for the parking system) must be at least C20/25.
- The precise position of the load application points depends on the selected system. For precise values, please contact DE-PARK.

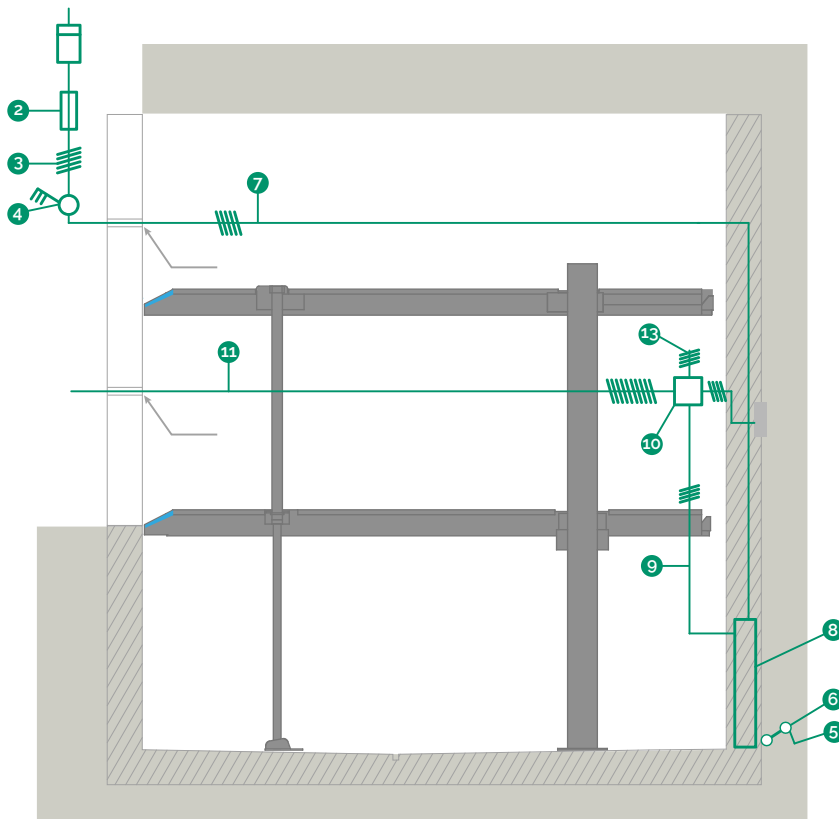
7. TYPE OF CONTROL

Interactive control unit:

We replaced the dead man's control function from the turning key for additional comfort, security and functionality.

- Our system is providing additional comfort by a set of two interactive push buttons.
- The push buttons are illuminated so that the control unit can provide information on the system status.
- This new system allows the integration of many custom safety solutions.

8. ELECTRIC SERVICES



Connected load of unit: 3 kW / 400 V

Electrical requirements on site: see figure

Item	Designation	Location	Quantity	Assignment
1	Electricity meter	in the supply cable	1	System
2	Fusing or automatic circuit breaker to DIN VDE 0100 Part 430, max. 16 A	in the supply cable	1	Unit
3	according to local power utility company regulations, 3 Ph + N + PE	Fuse - main switch	1	Unit
4	Main switch lockable	upstream of the unit	1	Unit
5	Connection for the protective equipotential bonding	Corner of pit floor or rear wall, every 10m		
6	Protective equipotential bonding	from the connection to the system	1	System
7	PVC control cable 5 x 2.5 mm ²	Main switch, unit	1	Unit
8	Hydraulic unit with three-phase motor 230/400 V; 50 Hz; 3 kw	next to the system / rear pillars	1	1-6 systems
9	PVC control cable 4 x 1.5 mm ²	Unit / system box	1	Unit
10	System box	in the system	1	System
11	PVC control cable 12 x 0.5 mm ²	System box control	1	System
12	Control	outside of the system, where possible to the left of it	1	System
13	PVC control cable 4 x 1.5 mm ²	to the next system box	1	System

Services provided in the system: see figure above

- Operator terminal including operator presence control with raising lowering
- Emergency stop outside of the system's movement range

9. SYSTEM-RELATED REQUIREMENTS

Maintenance, cleaning & prevention

- The systems must be serviced and cleaned regularly. This applies above all if the systems and the platforms are exposed to aggressive substances such as salt, water, dirt, operating supplies, sand, etc.
- Adequate drainage must be ensured.

Ventilation

The garage must be adequately ventilated.

10. LEGAL REQUIREMENTS



Marking tape on the edge of the pit

According to EN 14010 / ISO 3864, a 10cm wide, black & yellow warning marking must be attached to the edge of the pit.



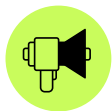
Separating elements / Barriers

According to EN ISO 13857, separating elements or barriers must be installed in the pedestrian area / accessible areas around the parking system, including during installation.



Fire safety

The garage design must fulfil the regional fire safety provisions. The requirements can vary. Therefore the situation must be clarified and information obtained in advance by the customer and then agreed and coordinated.



Noise emissions

According to the noise insulation regulations for buildings to DIN 4109, a value of 30dB (A) must be complied with in occupied rooms and spaces. You receive a sound insulation package with the system for the required 30dB (A) insulation of the structure is also necessary. Sound reduction index min. $R_w = 57\text{dB}$

11. REQUIREMENTS ON SITE

Ambient conditions

Temperature range from -5 to +40 °C. Relative humidity 50% at max. outdoor temperature +40 °C. Please contact DE-PARK incase of different conditions.

Lighting

The parking spaces must be adequately illuminated on site as specified.

12. CE AND CONFORMITY

The systems conform to ...

- EN 14010-2009-12 Safety of Machinery - Equipment for power driven parking of motor vehicles
- Machinery Directive 2006/42/EC



Design changes

We reserve the right to continuously develop our product on the basis of technical progress and to make changes and/or modifications to parts, assemblies or overall, to processes and to standards.

DE-PARK IS MAKING YOUR LIFE EASY:

GERMAN MADE WITH A SLIM & MODULAR DESIGN
EASY PLANNING AND SETUP

LOW MAINTENANCE CONSTRUCTION
EASY TO USE WITH LOW NOISE EMISSIONS

NO PILLARS IN THE ENTRY AND PEDESTRIAN AREA
EASY MANOEUVERING AND SENSORLESS POSITIONING

FLAT & CONTINUOUS PLATFORM
EASY TO CLEAN AND COMFORTABLE TO WALK ON



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