



PN EN
14010

Made
in Poland

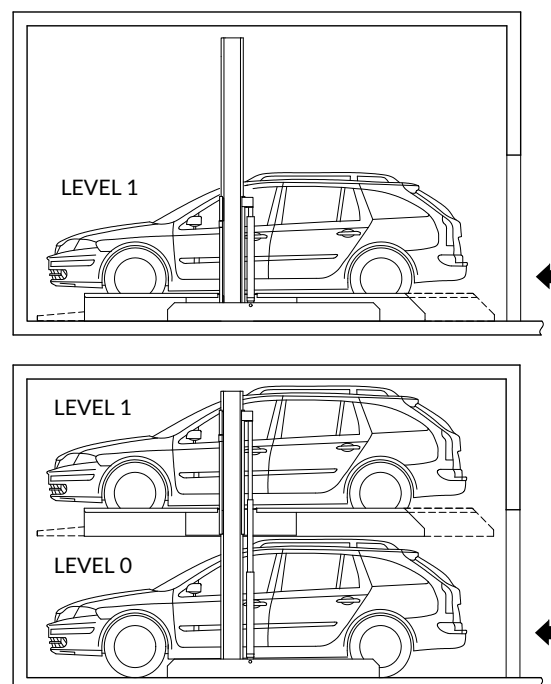
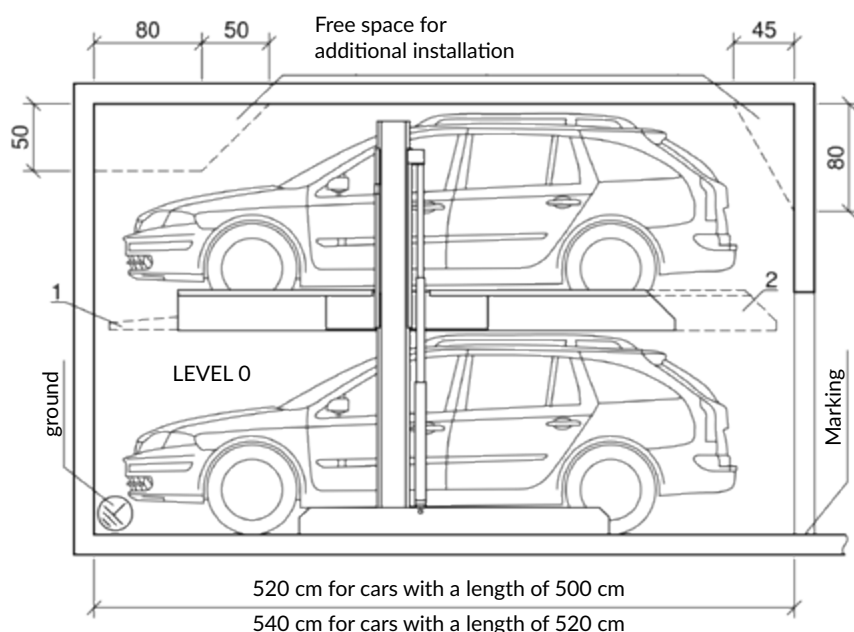


STACKER-P10

Dependent parking platform

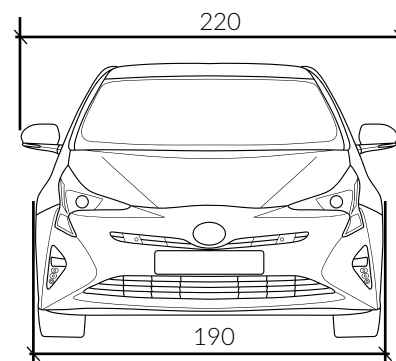
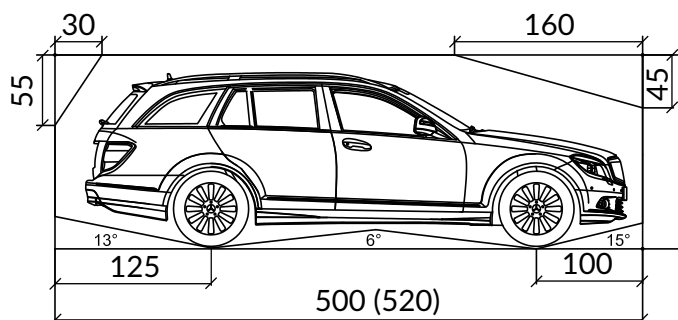
Hold to start system, dependent, design to park two sedans, station wagon, SUV and VAN - depending on the dimensions. Designed for garages in residential facilities, office buildings, hotel etc.

Technical data and installation requirements

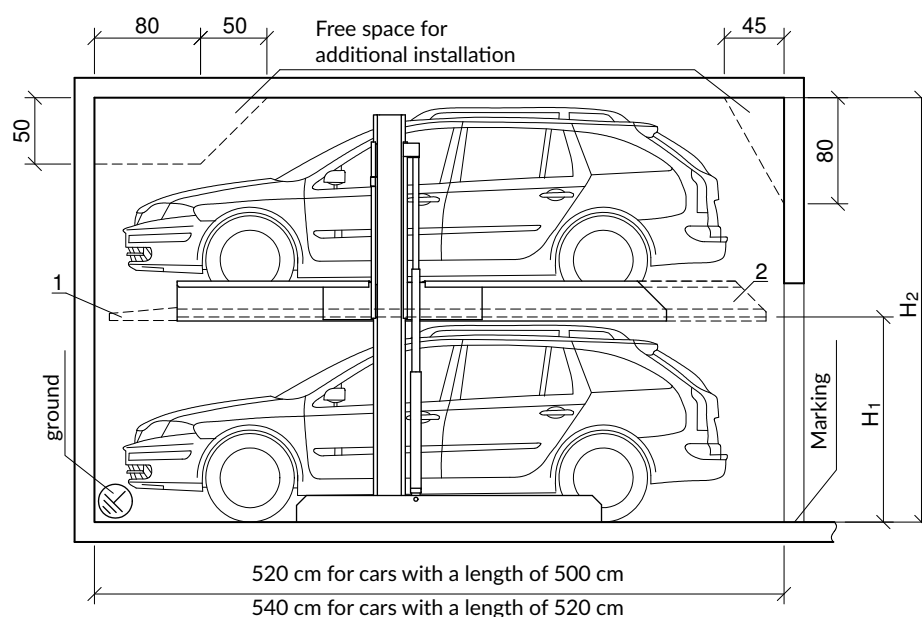


* 1,2 - optional equipment

Capacity - 2000 to 2600 kg,. Slope for drainage: 1% to 2% along the pit, minimum pit depth - 165 cm (+5 cm for drainage), minimum garage height above the access road - 320 cm. Dimensions in cm, tolerance 0 +3 cm



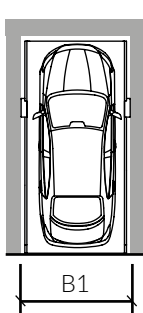
	Standard
Width	190 cm
Weight	2000 kg
Weight distribution per wheel	500 kg



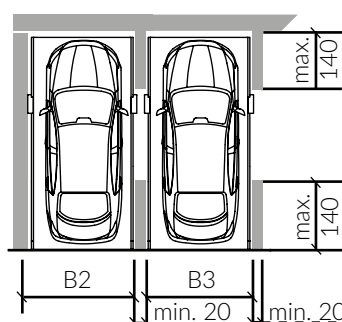
* 1,2 - optional equipment

Remark:

With a higher H2 height, a higher car can be parked on the upper platform according to the additional height

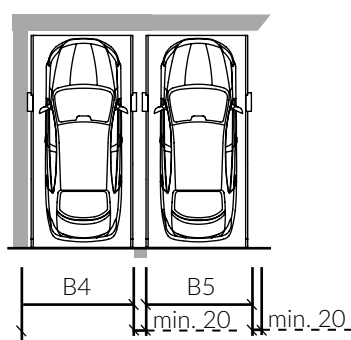


Usable width	B1
230	260
240	270
250	280
260	290
270	300



H1	H2	Max. car height	
		LEVEL 0	LEVEL 1
160	320	150	150
170	330	160	150
170	340	160	160
180	340	170	150
180	350	170	160
180	360	170	170
190	350	180	150
190	360	180	160
190	370	180	170
190	380	180	180
200	360	190	150
200	370	190	160
200	380	190	170
200	390	190	180
200	400	190	190
210	400	200	150
210	410	200	160
210	420	200	170
210	400	200	180
210	410	200	190
210	420	200	200

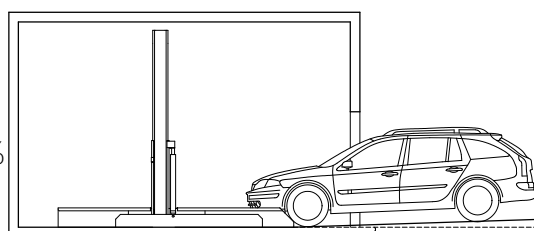
Usable width	B2	B3
230	255	245
240	265	255
250	275	265
260	285	275
270	295	285



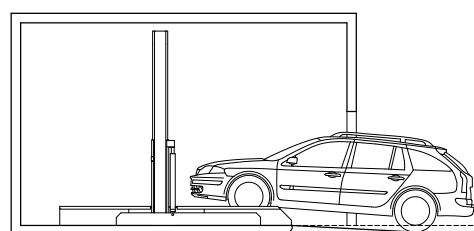
Usable width	B4	B5
230	250	240
240	260	250
250	270	260
260	280	270
270	290	280

IMPORTANT:
When designing separate gates for individual systems, it is recommended to consult the gate manufacturer in terms of using the free space for running the installation located on the border of the device sockets.

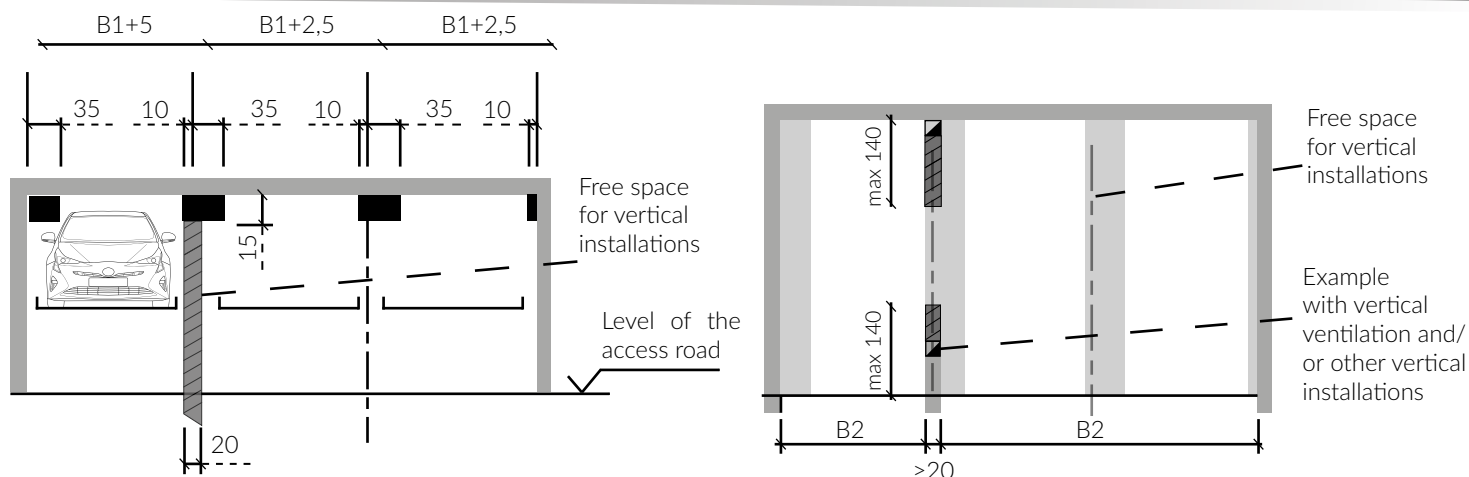
Maximum descent gradient: 4%



Maximum gradient of the climb: 14%



NOTE! Do not exceed the specified angle. Failure to comply with this information may result in damage of the car, for which the manufacturer is not responsible.

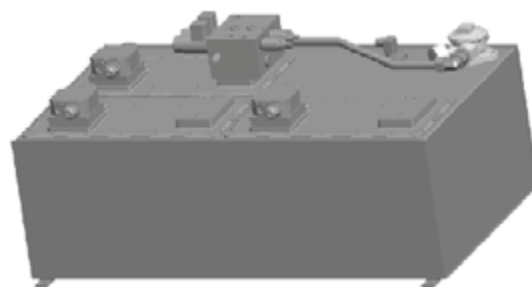


Free space may be used only when the car is parked FRONT

MODULO PARKING devices are part of the scope of home appliances (EN-B-02151 standard-2: 2018-01 sec. 4, no. 4). Admissible noise level of the device in operation, audible in living quarters (30dB (A) acc. to DIN 4109) achievable under the conditions: noise resistance of the building structure $R'w = 57\text{dB}$, partition walls min. 300 kg / m², the ceiling above the garage min. 400 kg / m². In case of failure conditions, it will be necessary to consult a representative of MODULO PARKING.



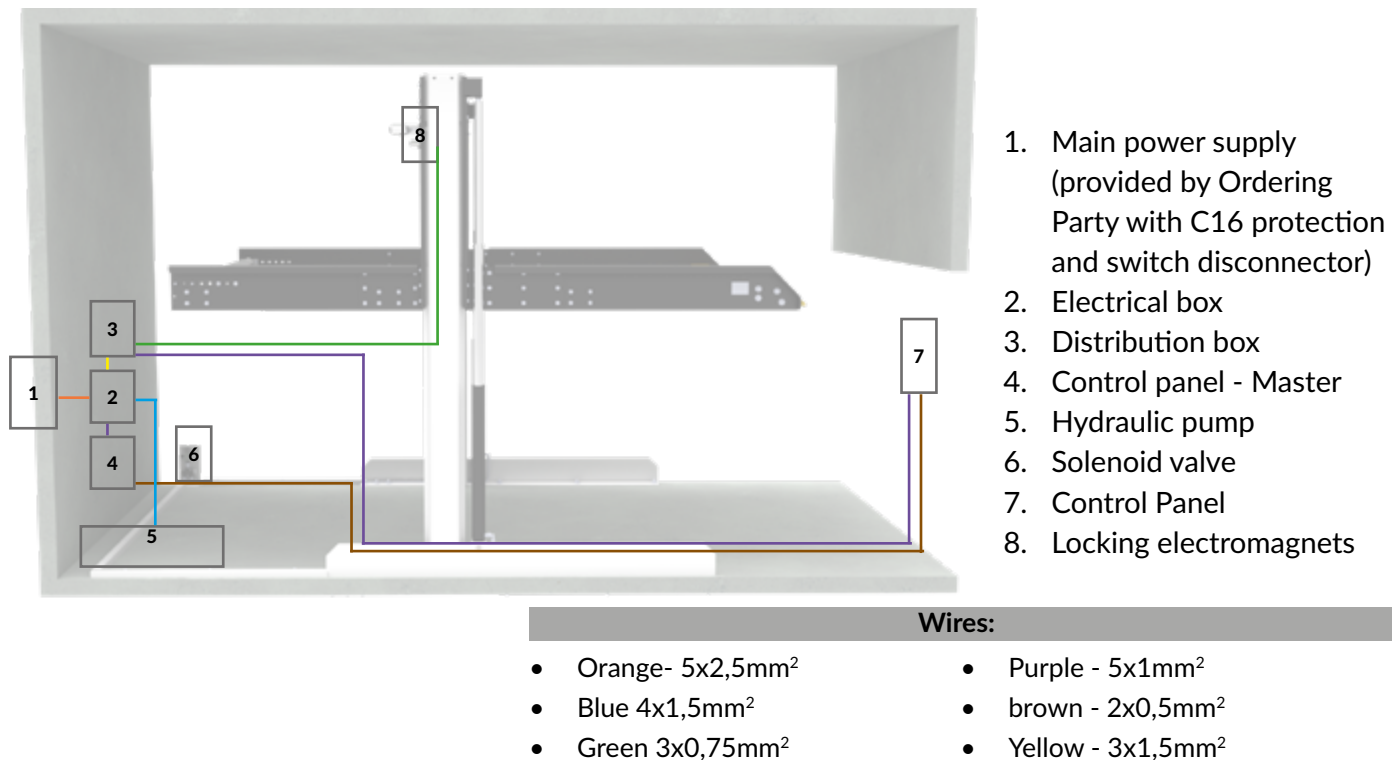
Example of a compact hydraulic pump. This can be used for maximum 2 devices. Application per device is defined on an individual basis.



Example of a hydraulic pump designed to power up to 8 devices. Application per device is defined on an individual basis.

The parking platforms are powered by hydraulic pumps equipped with an oil tank, pump and a 3-phase electric motor with a power of 3.0 kW. With a voltage of 3x400 V AC / 50 Hz. The ordering Party is responsible to ground the device that should be made within the parking platforms, on the rear wall, approx. 1 m from the bottom of the platform parking space. Potential equalization in accordance with DIN EN 60204 from the grounding of the foundation to the platform. Bringing power to the service switch and the control cable to the pump should be undertaken by the Ordering Party during assembly.

In accordance with PN-EN 60204 (Safety of machinery, Electrical equipment) it is required to ground the steel structures. Grounding must be provided by the Ordering Party (distance between grounding points max. 10 m.). Power cord: cable 5 x 2.5 mm (3 L + N + PE) with marked cores and a protective conductor for each unit. End with a three-phase switch (service switch, with position lock) at a height of approx. 160-170 cm from the level of the access road, on the rear wall. Perform security (security preliminary) 3 x 16A for each generator (characteristic C).



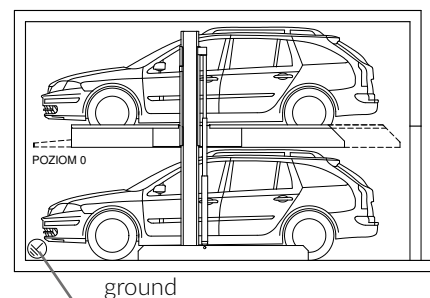
The parking system is powered by three-phase voltage 3x 400V AC 50 Hz. Typical system power consumption is 3 kW.

Ordering Party responsibilities

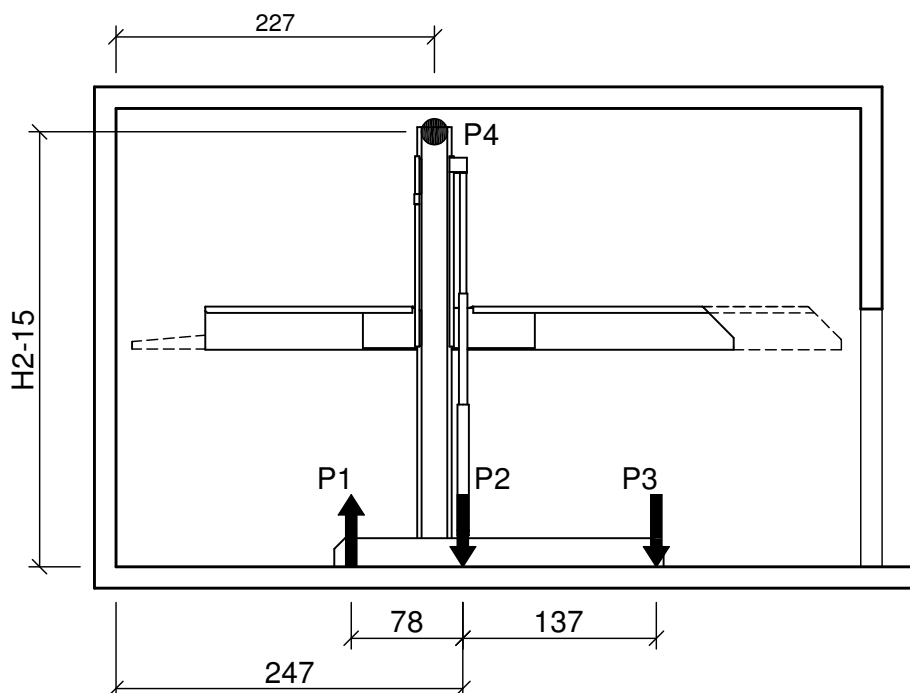
- Grounding the parking platform in accordance with PN-EN 60204 (Safety of machinery, Electrical equipment). Maximum distance between the grounding and the parking platform is 10 m;
- Provide three-phase protection in the building's electrical switchboard C16 (optionally different for individual projects) for each area (pump) of the parking system;
- Install an isolating switch with interlock within the platform positions that allow safe disconnection of the voltage being 1.5-1.7 m high from the level of the access road on rear wall;
- Connect the power supply with the 5x2.5mm² cable (L1, L2, L3, N, PE) with marked conductors to the service switch (switch disconnecter).

Modulo Parking responsibilities

- Electrical documentation necessary to connect the electrical system;
- Electrical cables for connecting the parking systems;
- Electrical boxes with the equipment necessary for the assembly and operation of the system parking lot.

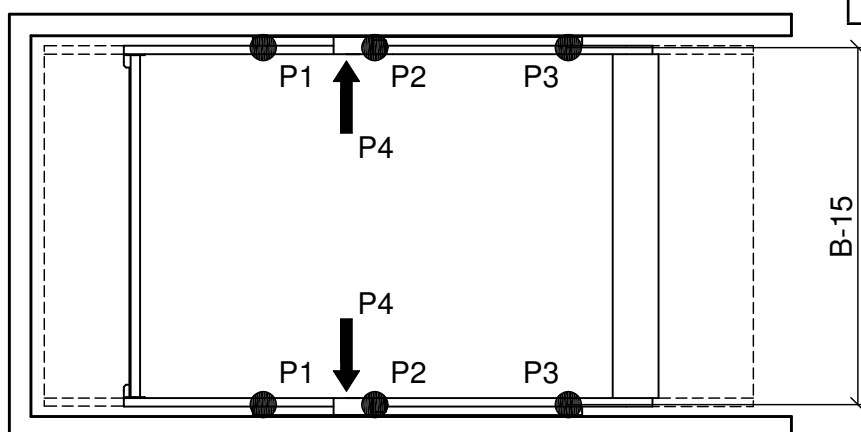


Drawing: Grounding the parking platform



Drawing: standard 3-phases switch

Platform load	2000 kg
P1 [kN]	10.0
P2 [kN]	26.0
P3 [kN]	2.5
P4 [kN]	2.0



The devices should be attached to the concrete floor with M16 chemical (glued) anchors hole depth approx. 13 cm. The floor should be made of concrete of at least C20 / 25 class, minimum floor thickness of 15 cm. The ordering party is obliged to prepare a pit with a drainage system so that it does not collide with the structural elements included in device specifications. The Ordering Party must also design and prepare places for the control panel and quick start guide (MODULO scope of delivery).

Device elements

Construction consist of:

- platform,
- two sliders,
- two poles anchored to the floor and walls,
- fasteners and securing elements.

Hydraulic pump consisting of:

- hydraulic oil tank,
- a hydraulic pump with an electric motor,
- pressure regulating valve,
- oil filter.

Hydraulic installation consisting of:

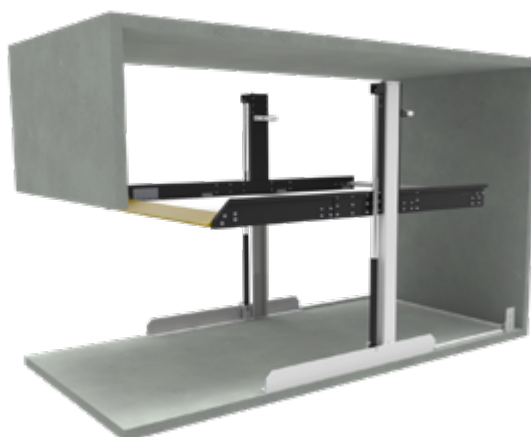
- hydraulic unit,
- two hydraulic cylinders
- hydraulic solenoid valves,
- hydraulic lines.

Electrical installation consisting of:

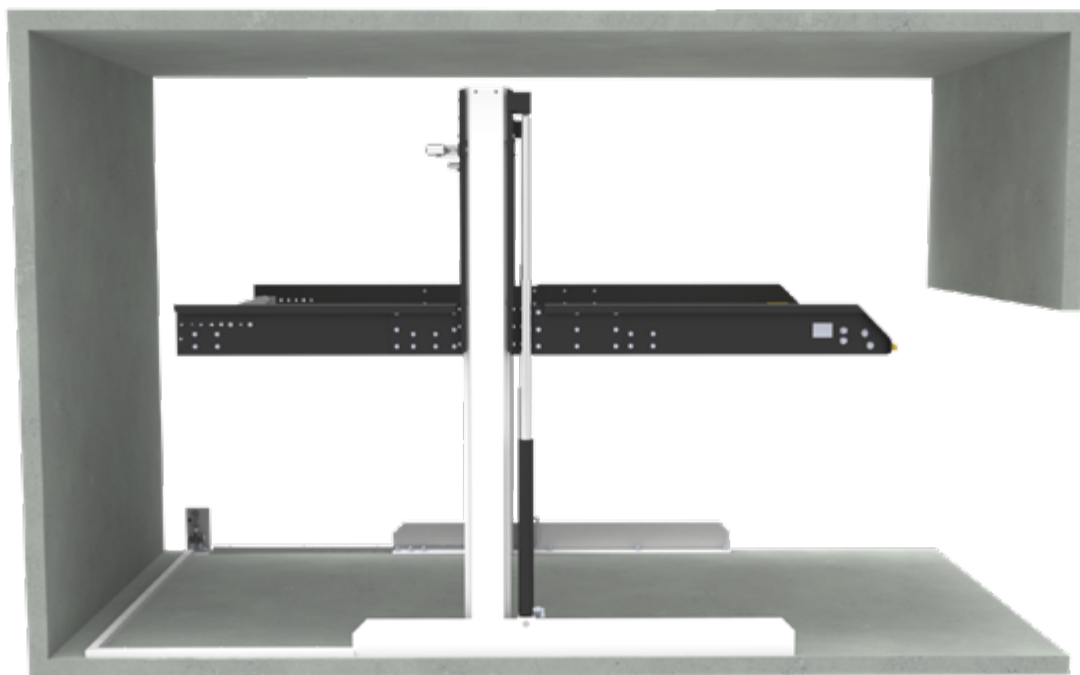
- distribution box,
- control panels,
- electric cables with fixing elements

Elements provided by Ordering Party:

- three-phase power supply 400V, 50Hz, 3P + N + PE with wire marking,
- electric meter,
- overcurrent protection 3x16A (characteristic C) for each hydraulic power unit,
- three-phase switch (yellow and red colors) with the possibility of blocking the position with a padlock for each hydraulic power pack,
- grounding within parking lots (potential equalization in accordance with PN-EN 60204 from grounding the foundation to the system,
- lighting of the parking area.

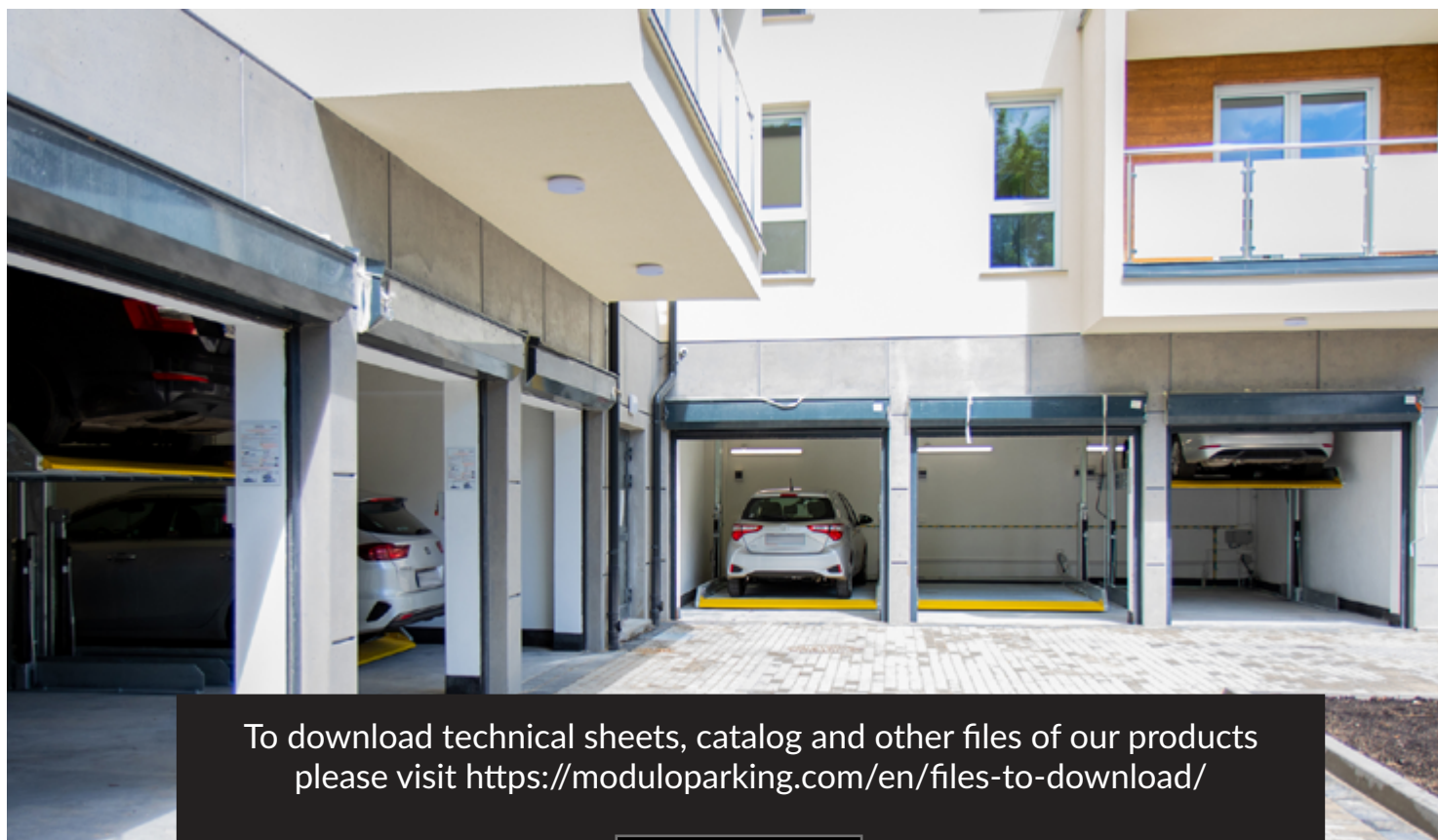


By design, the parking system is intended for use by people who have assigned parking spaces - these are users who know the device and are able to operate it. If the system is intended for semi-public use (assigned lower spaces with upper spaced for untrained visitors), it must be specifically adapted for this function. In this case please contact the representative of Modulo Parking Sp. z o.o. System offered was developed in accordance with PN-EN ISO 14010 and the Machinery Directive 2006/42 / EC and has a CE certificate.



Remarks

1. All dimensions of the pit in which the system will be placed are minimal dimensions. Dimensions are given in centimeters. Dimensional tolerance of the construction is 0 +3 cm.
2. System grounding connections must be prepared by the Ordering Party.
3. The dimension table shows the minimum dimensions of the pit and the entire system structure for the referred height of the car. When the distance from the ramp to the ceiling is bigger, accordingly higher cars can be parked on the upper platform.
4. The systems can be adapted to different (larger) car dimensions and weight, with an additional fee calculated individually
5. The minimum clearance between the roof of the parked car and the ceiling/upper platform is 5 cm.
6. In accordance with the PN-EN 14010 + A1 2009E standard, a 10cm black and yellow safety belt should be painted in front of the entrance to the parking platform.
7. Drainage should be prepared on the access road to the system, with sufficient gradient from the systems to the drainage channel.
8. No curved/beveled connections of the walls and ground of the pit should be used. If this is required, deeper pit should be prepared.



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