



MAKING PLACE



DATASHEET L22 (WITHOUT PIT)

Efficient and fast solution for expanding
parking capacity

MEKANOR TECHNOLOGIES



DESIGNED, DEVELOPED AND MADE IN GERMANY.

LEGEND



The systems offered comply with DIN EN 14010 and the EC Machinery Directive 2006/42/EC.



Maximum load per parking space in kg for single parking spaces.



A charging station can be retrofitted at any time.



PRODUCT DESCRIPTION L22

The L22 parking system is mounted to the rear wall or ceiling and is available as a single unit for two passenger vehicles. Multiple modules can be flexibly arranged in series. Flat, horizontally accessible platforms ensure a high level of comfort when parking and retrieving vehicles.

The L22 is particularly suitable for private parking areas (e.g. second vehicles or hobby cars), parking garages with valet parking, and applications in the automotive sector. The system is designed for indoor installation.

Operation is carried out via a user-friendly control unit with lift/lower push buttons and an emergency stop function. Low installation costs and simple assembly complete the overall concept.

Additional documents



Driving plates PDF



Gates PDF

Dependent car parking system – single unit for two vehicles

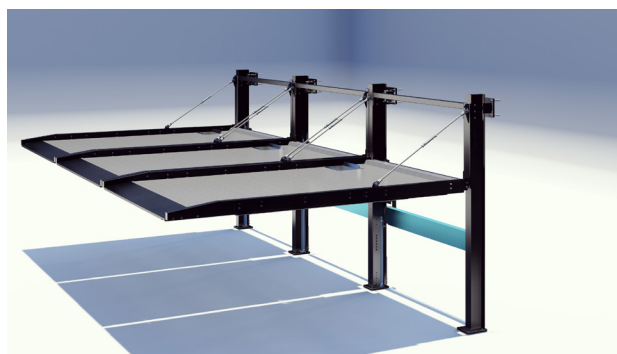
Simple parking. Comfortable. Efficient.

Designed for use in **residential buildings, hotels, and valet parking areas.**

Platform parking spaces are reserved exclusively for an instructed, defined user group.
The system is intended for indoor installation.

Maximum Vehicle Weight

	weight	wheel load
standard	2000 kg	500 kg
optional	2600 kg 3000 kg	650 kg 750 kg



SYSTEM DESCRIPTION

The system is designed without columns in the entrance area and features a horizontally accessible platform. The lower parking space is located at ground level and is easy to access. A pit is not required.

The parking system has a modular design and consists of at least one segment for two vehicles. Thanks to the flexible segment structure, the system can be expanded at any time and optimally adapted to the available space.

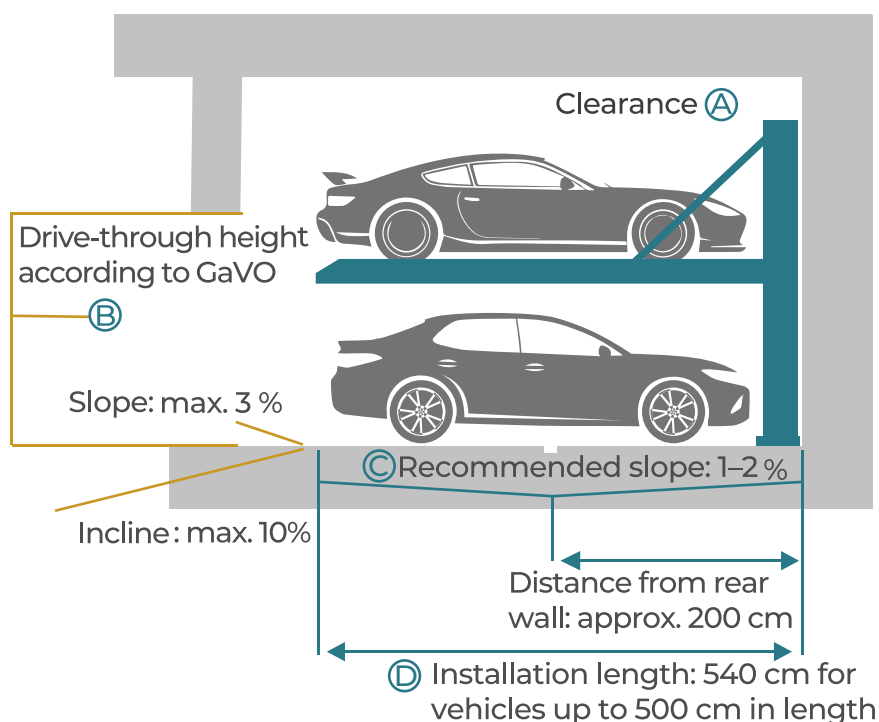
Our standard: flat platforms without trip hazards.

COMPACT PLANNING. FAST INSTALLATION. EASY OPERATION.

The sophisticated design allows for simple planning, quick installation with a reduced number of components, and comfortable, barrier-free use.



LENGTH DIMENSIONS



Ⓐ Clearance

Space for on-site installation.

Ⓑ Drive-through height

Clear drive-through height at the lintel in accordance with GaVO, minimum 210 cm when gates are installed. Please check the applicable GaVO regulations.

Ⓒ Drainage

A slope of 1-2% must be provided in the pit floor. Drainage should be positioned at a distance of 200-300 cm from the rear wall.

The installation of a drainage channel (10 × 2 cm) with a sump (50 × 50 × 20 cm) is recommended.

Ⓓ Installation length

For vehicles up to 500 cm in length, a minimum installation length of 545 cm is required. For longer vehicles up to 520 cm, the installation length should be at least 560 cm.

Shorter versions are generally possible; however, local parking regulations must always be observed.

For comfortable use, an installation length of 550 cm is generally recommended.

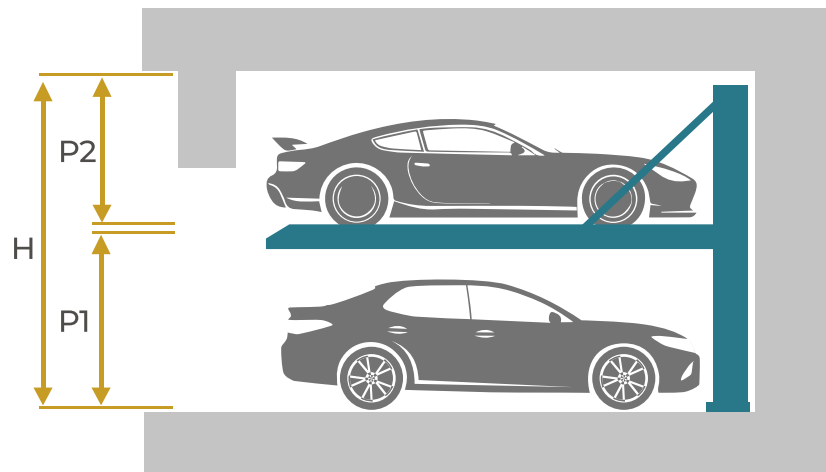
Thanks to the innovative design, the parking space can be accessed particularly comfortably. The continuously flat platform ensures high comfort and maximum safety. A gentle approach angle and lowered side beam facilitate maneuvering and reduce the risk of collisions.

Attention: If a gate is planned, please refer to the “Gate” brochure.

HEIGHT DIMENSIONS

The maximum vehicle height – including roof racks, antennas, or similar attachments – must not exceed the specified limits.

If greater ceiling height is available, taller vehicles can also be parked on the upper platform.

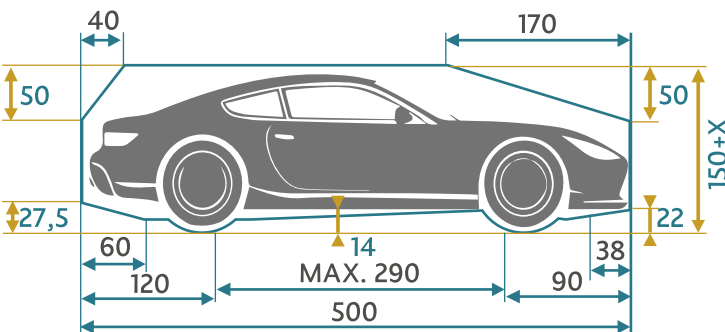


Clear Height (H)	car height, lower level (P1)	car height, upper level (P2)		car height, lower level (P1)	car height, upper level (P2)		car height, lower level (P1)	car height, upper level (P2)
320 cm	150 cm	150 cm		-	-		-	-
330 cm	160 cm	150 cm		-	-		-	-
340 cm	170 cm	150 cm	or	160 cm	160 cm		-	-
350 cm	180 cm	150 cm	or	170 cm	160 cm		-	-
360 cm	190 cm	150 cm	or	180 cm	160 cm	or	170 cm	170 cm
370 cm	200 cm	150 cm	or	190 cm	160 cm	or	180 cm	170 cm
380 cm	200 cm	150 cm	or	190 cm	160 cm	or	190 cm	170 cm

Overview of dimensions:

- **Maximum vehicle height** lower level (P1): 200 cm
- **Clear height** (H): minimum 330 cm
- **Maximum vehicle height upper level** (P2): depending on the building structure; greater clear height allows taller vehicles on the upper platform

CLEARANCE PROFILE



All specified dimensions are minimum dimensions. Tolerances according to VOB Part C (DIN 18330, DIN 18331) and DIN 18202 must also be observed.



Maximum height:

Vehicles including roof racks, antennas, etc. must not exceed the specified maximum values. Lowered vehicles and vehicles with front spoilers can only be parked on the upper level to a limited extent.



Upper platform:

With greater ceiling height, taller vehicles can also be parked.



Dimensions:

All specifications are minimum dimensions.

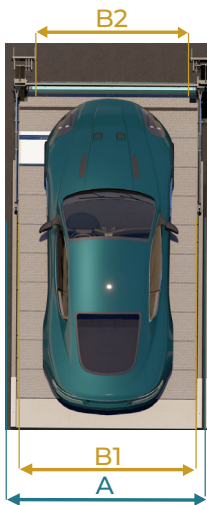


Standards & tolerances:

Additional requirements apply in accordance with

- VOB Part C (DIN 18330, DIN 18331)
- DIN 18202

WIDTH DIMENSIONS

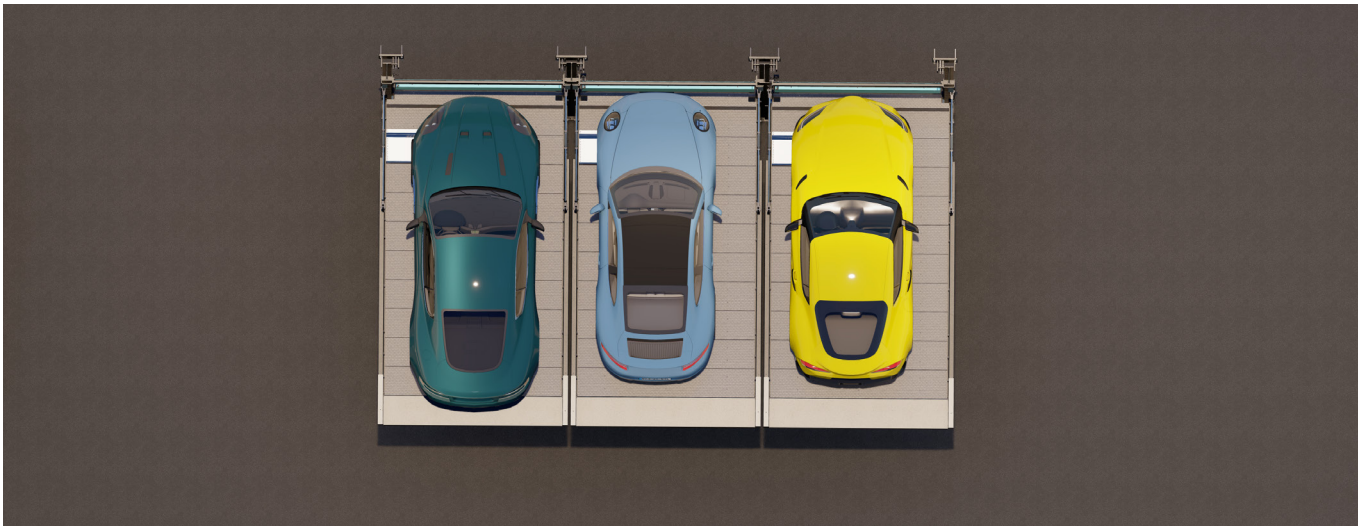


Each segment grid requires an access lane (entry/exit).

System width A	Segment width B1 usable parking space width	Additional width B2* parking space width according to GaVO
230 cm	250 cm	220 cm
240 cm	260 cm	230 cm
250 cm	270 cm	240 cm
260 cm	280 cm	250 cm
270 cm	290 cm	260 cm

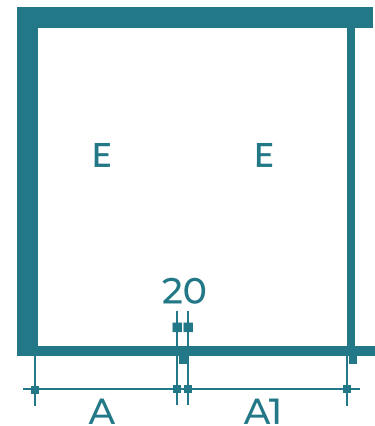
*With short platforms, the parking space width cannot be provided over the full length.

- The modular single system can be flexibly extended in series, allowing optimal use of the available space – without obstructive columns between parking spaces.
- Dimensional tolerances of 0 to +3 cm are permissible on site.
- Please observe the prescribed driveway width in accordance with GaVO and applicable regional regulations.



WIDTH DIMENSIONS WITH COLUMNS IN FRONT OF THE PARKING AREA

Wand zu Stütze A	Stütze zu Stütze A1	= Stellplatzbreite
250 cm	240 cm	230 cm
260 cm	250 cm	240 cm
270 cm	260 cm	250 cm
280 cm	270 cm	260 cm
290 cm	280 cm	270 cm
300 cm	290 cm	280 cm



E = Single unit for 2 vehicles

Illustrative example (column = 20 cm) for orientation. For comfortable parking, a parking space width of at least 250 cm is recommended.

Control and Operation

The new generation: push-button operation

Operation is carried out via a modern control unit that combines maximum ease of use with the highest level of safety. Two ergonomically positioned push buttons for lifting and lowering, an easily accessible emergency stop button, and an RFID or optional key switch matched to your project for system activation ensure intuitive and safe operation.

The desired parking position is selected easily and in a controlled manner: by pressing and holding the corresponding button, the system moves smoothly and precisely into position.

Flexible mounting options:

The control unit can be mounted on the wall (flush-mounted or surface-mounted) or installed on an elegant pedestal.



STRUCTURAL EXECUTION (SEE ALSO PLANNING NOTES)



Load specifications apply per system column. If columns are positioned directly next to each other, the load values double, as both columns are anchored at a single fixing point. Load F2 can also be transferred via the ceiling. Ceiling mounting available if required.

Anchoring

The systems are secured to the floor and rear wall using heavy-duty anchors; ceiling mounting or back-to-back installation is also possible. Drilling depth is approx. 13 cm.

The floor slab must be at least 20 cm thick and have concrete quality according to the structural requirements of the building. Minimum concrete requirement: C20/25.

Openings & Walls

For electrical and hydraulic lines, an opening of approx. 15 × 15 cm must be provided in partition walls and must not be closed after installation. Walls at the entrance and rear must be made of concrete and be completely level, without protruding parts.

ELECTRICAL INSTALLATION

On-site services

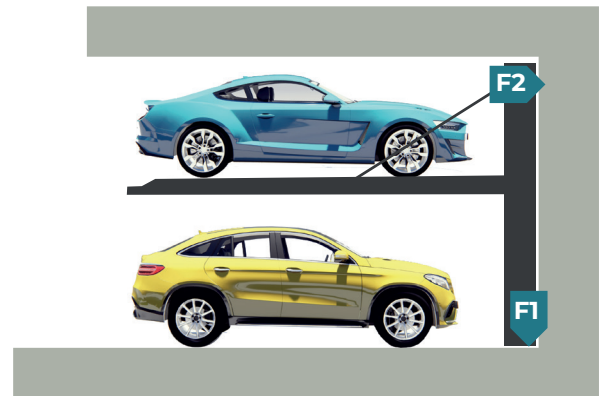
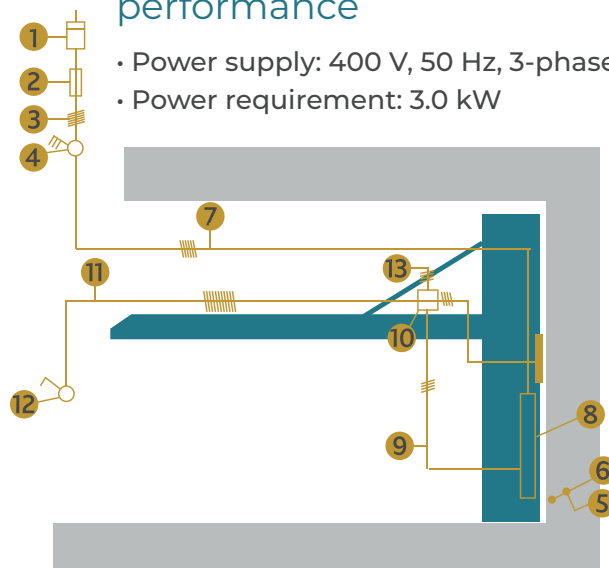
Pos. Beschreibung

1. Electricity meter
2. Fuse or circuit breaker in accordance with DIN VDE 0100, Part 430, 3 × 16 A slow-blow
3. Supply line to main switch according to local regulations, 3 PH + N + PE
4. Lockable main switch
5. Connection for equipotential bonding in accordance with DIN 60204
6. Protective equipotential connection every 10 m

Items 7–13 are included in the scope of supply from Making Place.

Power supply and system performance

- Power supply: 400 V, 50 Hz, 3-phase
- Power requirement: 3.0 kW



The F2 load can alternatively be transferred via the ceiling.

Ceiling mounting is available on request.

	2000 kg	2600 kg
F1	20 kN	25 kN
F2	20 kN	25 kN

PLANNING NOTES

Hydraulic unit

The hydraulic unit can be installed in a space-saving manner within partition walls, wall recesses, or niches. Alternatively, a separate technical area above the entrance level can be planned.

Required space (length × height × depth):

- approx. 100 × 140 × 35 cm for up to 5 systems
- approx. 150 × 140 × 35 cm for up to 10 systems

Maintenance, cleaning, and care

Regular maintenance and cleaning are required to ensure safe and long-term operation. Adequate drainage must be ensured.

Barriers & railings

Traffic routes adjacent to or behind automated parking systems must be secured with suitable barriers or railings in accordance with DIN EN ISO 13857.

Ventilation & lighting

The parking garage must be ventilated in accordance with applicable regulations. Parking spaces must be sufficiently illuminated to ensure safety and orientation.

Temperature

Ambient temperature: –5 °C to +40 °C

Relative humidity: max. 80%

Please contact us if conditions differ.

Noise protection

In enclosed spaces, a maximum sound pressure level of 30 dB(A) must be maintained in accordance with DIN 4109. A corresponding noise insulation package is included.

Building insulation with a sound reduction index $RW'w \geq 57$ dB(A) must be provided on site.

Fire protection

Any requirements and necessary measures must be clarified and implemented on site.

Conformity

Making Place parking systems comply with the EC Machinery Directive 2006/42/EC and DIN EN 14010.



IMPRINT



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