



MAKING PLACE



DATASHEET S13 (WITH PIT)

Semi-automatic car parking system
on 3 levels

Tronik Parking Technologies



DESIGNED, DEVELOPED AND MADE IN GERMANY.

LEGEND



The offered systems 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 S13

The **S13 parking system** by Making Place is a semi-automatic parking system with a pit, designed for independent parking on three levels – ideal for garages with clear heights from 320 cm.

Thanks to its modular segment design, multiple segments can be connected in any sequence. The smallest configuration consists of at least two segments providing space for five vehicles.

All platforms are horizontally accessible and offer a high level of comfort without columns in the entrance area. Operation is simple via touchscreen, activated by RFID chip release, and optionally via remote control transmitter.

The system enables an almost threefold increase in parking capacity while maintaining the same footprint. It is suitable for residential buildings, office and commercial properties as well as hotels, and is exclusively intended for a fixed, authorized user group.

Additional Documents



Drive-on plates (PDF)



Gates (PDF)

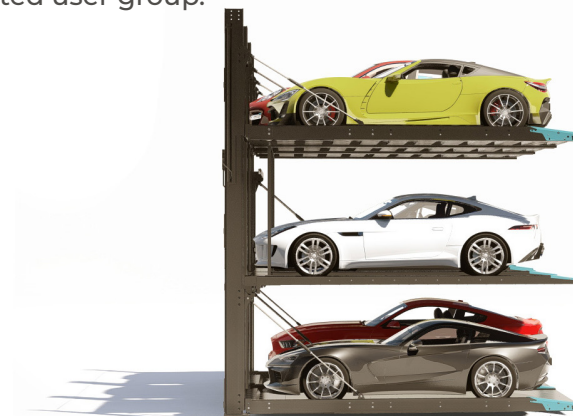
Minimum Requirement:

AT LEAST 2 SEGMENTS FOR 5 VEHICLES ARE REQUIRED.

Ideal for use in residential developments, office and commercial buildings, and hotels.
The system is intended exclusively for a defined, instructed user group.
Installation is for indoor use only.

Maximum vehicle weight

	weight	wheel-load
standard	2000 kg	500 kg
optional	2600 kg	650 kg



FUNCTIONAL DESCRIPTION

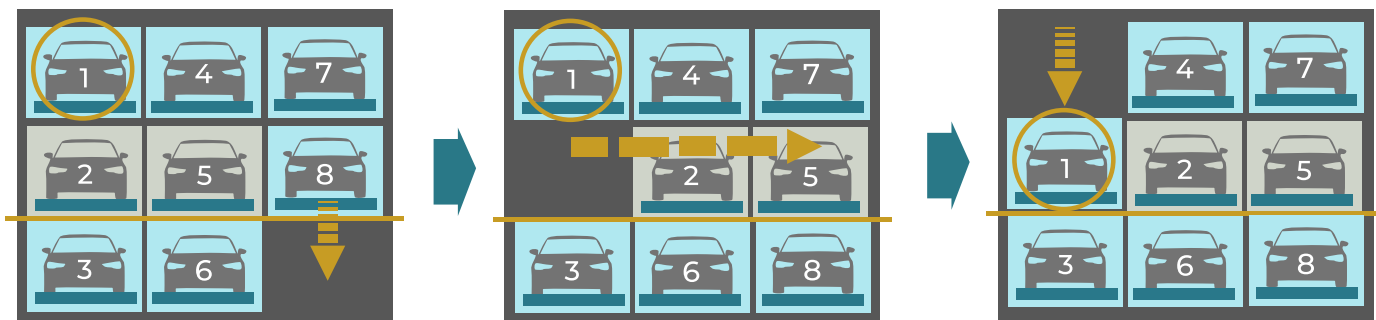
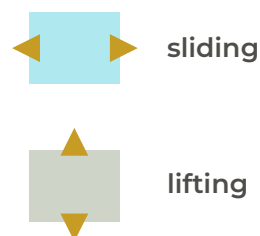
The Tronik series uses an intelligent parking system with vertically and horizontally moving platforms for maximum space efficiency.

This coordinated interaction allows particularly efficient use of space and maximum flexibility during operation.

On the access level, one empty parking space is required to perform the shifting process.

Parking space selection is intuitive and convenient via push-button at the control terminal or via remote control. Positioning is carried out automatically by the system.

The following example shows 3 segments with 8 parking spaces and one empty space.



A) To move parking space no. 1 to the access level, parking space no. 8 is first lowered.

B) Then parking spaces no. 2 and no. 3 shift sideways.

C) Afterwards, parking space no. 1 is lowered into the access level.

OUR STANDARD LEVEL PLATFORMS WITHOUT TRIP EDGES

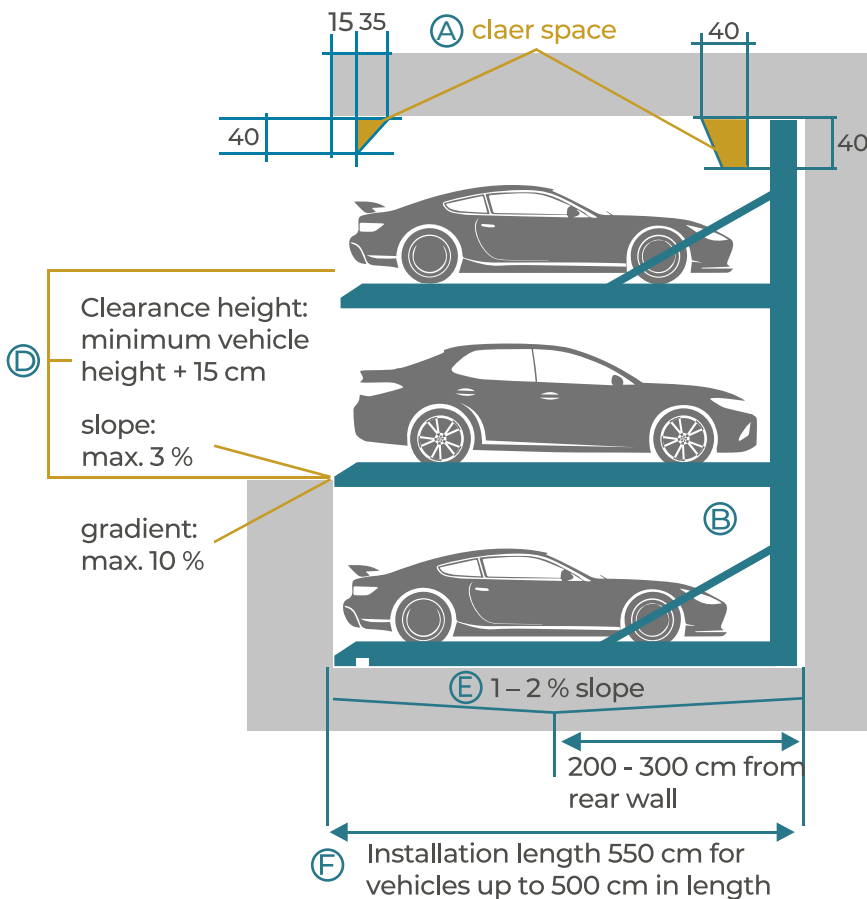
COMPACTLY PLANNED. QUICKLY INSTALLED. EASY TO USE.

Our sophisticated design allows simple planning, fast installation with only a few components, and comfortable, barrier-free operation.

LÄNGENMASSE

Ⓐ Marking

At the pit edge in the access area, a 10 cm wide yellow-black warning marking according to DIN ISO 3864 must be applied on site to clearly identify the hazard zone in accordance with DIN EN 14010.



Ⓔ 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.

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

Ⓣ Pit Length

For vehicles up to 500 cm in length, a pit length of at least 550 cm is required.

For longer vehicles up to 520 cm, the pit length should be at least 570 cm.

Shorter versions are generally possible, but local parking space regulations must always be observed.

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

ATTENTION: For gate planning, please refer to the “Gate” brochure.

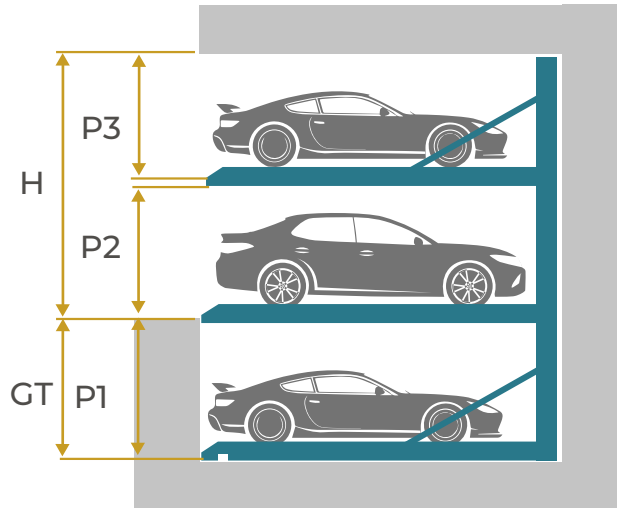
HEIGHT DIMENSIONS

Pit depth (GT) determines the maximum height of the lower vehicle (P1).

Clear height (H) defines the total height required for all vehicles and must be at least 320 cm.

Example:

With a pit depth of 175 cm, P1 may be up to 150 cm high. With a clear height of 320 cm, an additional vehicle (P2) with 150 cm height fits above.



Dimension Overview

Pit depth (GT): 175–230 cm (available in 5 cm increments)

Maximum vehicle height lower level (P1): 150 cm (depending on pit depth)

Clear height (H): minimum 320 cm

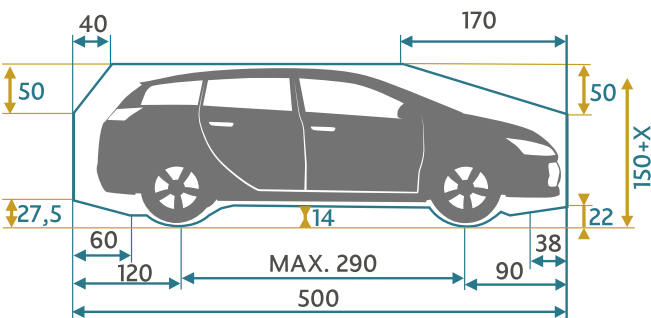
Maximum vehicle height middle level (P2): up to 205 cm depending on structure

Vehicle height on upper platform (P3): depends on building conditions

All dimensions in cm. Minimum values apply.

Pit depth (GT)	Maximum vehicle height lower level (P1)	Required clear height (H)	Maximum vehicle height middle level (P2)	Maximum vehicle height upper level (P3)
175 cm	150 cm	320 cm	150 cm	150 cm
180 cm	155 cm	325 cm	155 cm	150 cm
200 cm	175 cm	345 cm	175 cm	150 cm
210 cm	185 cm	355 cm	185 cm	150 cm
220 cm	195 cm	365 cm	195 cm	150 cm
230 cm	205 cm	375 cm	205 cm	150 cm

Lower Platform



 **Maximum height:** The vehicle, including roof rack, antenna, etc., must not exceed the specified maximum values.

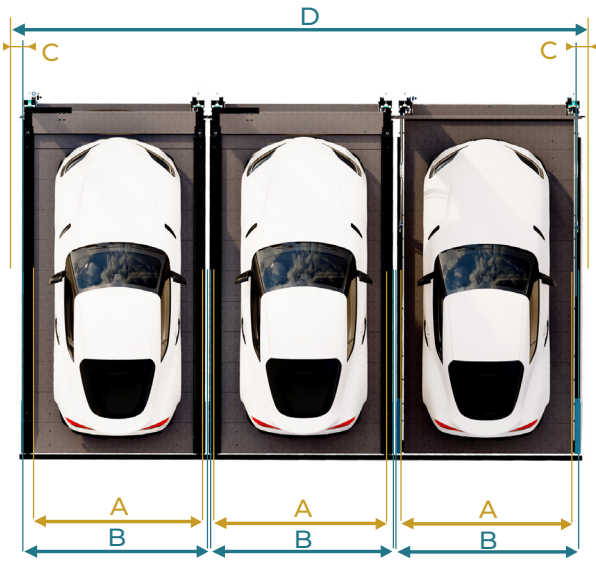
 **Upper platform:** With greater ceiling height, taller vehicles may also be parked on the upper level.

 **Dimensions:** All dimensions are given in cm. These are minimum requirements.

 **Standards & tolerances:** The following regulations additionally apply:

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

WIDTH DIMENSIONS



Segmented construction

- A = Parking space width (clear platform width)
- B = Segment width
- C = Additional width (outer segments)
- D = Total width

Dimensions are given in centimeters (cm).

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

parking width A	system width B	additional width C
230 cm	250 cm	10 cm
240 cm	260 cm	10 cm
250 cm	270 cm	10 cm
260 cm	280 cm	10 cm
270 cm	290 cm	10 cm

■ Due to the design, the clear parking width of the sliding platform is generally approx. 15 cm narrower than that of the lifting platform.

- Thanks to the flat side panels, there is still sufficient space for parking and comfortable entry and exit.
- The two outer segments each require an additional width of 10 cm.
- Dimensional tolerances on site: 0 to +3 cm.

The S13 model is flexibly expandable – up to 10 segments with a total of 29 parking spaces are possible.

Parking width A	Total width D with x segments								
	2 seg. 5 vehicle	3 seg. 8 vehicle	4 seg. 11 vehicle	5 seg 14 veh.	6 seg. 17 veh.	7 seg. 20 veh.	8 seg. 23 veh.	9 seg. 26 veh.	10 seg. 29 veh.
230	520	770	1020	1270	1520	1770	2020	2270	2520
240	540	800	1060	1320	1580	1840	2100	2360	2620
250	560	830	1100	1370	1640	1910	2180	2450	2720
260	580	860	1140	1420	1700	1980	2260	2540	2820
270	600	890	1180	1470	1760	2050	2340	2630	2920

WIDTH DIMENSIONS WITH COLUMNS IN FRONT OF THE PARKING AREA



*Systems can be extended as required.

OPERATION & CONTROL

For fast online analysis and reliable maintenance:
RMD ensures smooth operation of your system.

Optional. Requires an on-site DSL internet connection at the control cabinet.



Modern Touchscreen Control Unit with an integrated key switch and emergency stop function.

Semi-automatic operation with gates via touchscreen

The system is operated semi-automatically using a modern touchscreen control unit.
Simply select your parking space by touch and follow on the display as your platform is provided.
An integrated key switch activates the control system and ensures that only authorized users have access.

For safety reasons, entrance gates are required in the access area.

Installation of the control unit

The control unit can optionally be wall-mounted (flush-mounted or surface-mounted).
Additional mounting options are available upon request.

“Stay comfortably seated in your vehicle – the system takes care of the rest.”

Upgrade: Remote Control Operation

Optionally, the system can be controlled via coded remote transmitter.

Each user receives an individual transmitter to request the platform at the push of a button.

If electric gates are included, they can also be opened and closed conveniently via remote control.

External access gates or barriers may also be integrated upon request.

CONSTRUCTION DETAILS (SEE ALSO PLANNING NOTES)



Marking according to ISO 3864 (provided by the customer)



The load F2 can also be transferred via the ceiling.
Ceiling fixation is available if required.

Walls

Walls on the entrance side and at the rear must be made of concrete and executed completely flush (without any protruding parts).

Anchoring and floor requirements

The systems are anchored to the floor and the rear wall using heavy-duty anchors. The drilling depth is approximately 13 cm. The base slab must be at least 20 cm thick and the concrete quality must comply with the structural requirements of the building.

Minimum concrete quality:

C20/25. Please observe the flatness tolerances in accordance with DIN 18202, Table 3, Line 3.

According to DIN EN 14010, the safety clearance between the lowest outer edges of the parking platforms and the garage floor must not exceed 2 cm.

	2000 kg	2600 kg
F1	35 kN	44 kN
F2	33 kN	41 kN
F3	8 kN	10 kN

ELEKTRO-INSTALLATION

Work to be provided by the client:

No. Description

- 1 Electricity meter
- 2 Fuse or circuit breaker per DIN VDE 0100, Part 430, max. 16 A
- 3 Power supply line to main switch per local regulations (3 PH + N + PE)
- 4 Main switch
- 5 Connection for equipotential bonding per DIN 60204
- 6 Equipotential bonding connection every 10 m

Power supply /System performance

- Power supply: 400 V, 50 Hz, 3 phases
- Power requirement: 2 × 3.0 kW

All other components are fully supplied by Making Place.

Electrical installation – control cabinet

- **Dimensions (depth × width × height):**
approx. 1200 mm × 1600 mm × 210 mm

• Position:

The control cabinet should be installed outside the movement area of the system, but in close proximity. Please allow a minimum clearance of 1 meter in front of the cabinet for door opening and sufficient space for authorized personnel.

PLANNING INFORMATION

Hydraulic Power Unit

Installation dimensions

(Depth × Width × Height):

Approx. 230 mm × 800 mm × 900 mm

Positioning:

The hydraulic unit is arranged space-saving between the columns at the rear wall.

Alternatively, it may be installed at another suitable location nearby upon agreement.

Maintenance, cleaning, and care

To ensure safe and long-term operation, the system must be serviced and cleaned regularly. Adequate drainage must also be ensured.

Railings and barriers

Traffic areas adjacent to or behind automated parking systems must be secured on site with suitable barriers or guardrails in accordance with DIN EN ISO 13857.

Ventilation and lighting

The parking garage must be ventilated in accordance with applicable regulations. Adequate lighting must be provided to ensure visibility and safety.

Temperature

range: -5 °C to +40 °C.

Relative humidity: max. 80 %.

For deviating conditions, please contact us.

Noise protection

In enclosed areas, the maximum permissible noise level is 30 dB(A) according to DIN 4109. A sound insulation package is included. The building must ensure a sound reduction index of at least $RW_{\text{f,w}} \geq 57$ dB(A).

Fire protection

Any applicable requirements or measures must be determined and implemented on site.

Conformity

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

IMPRINT



Datablatt S13 (with pit)

01/2026

Making Place GmbH

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