

1 OPTILIFT



OPTILIFT

Stacker mechanical parking system
for 2 sedan vehicles

DATA SHEET



WE
EXPAND
YOUR PARKING
CAPACITY

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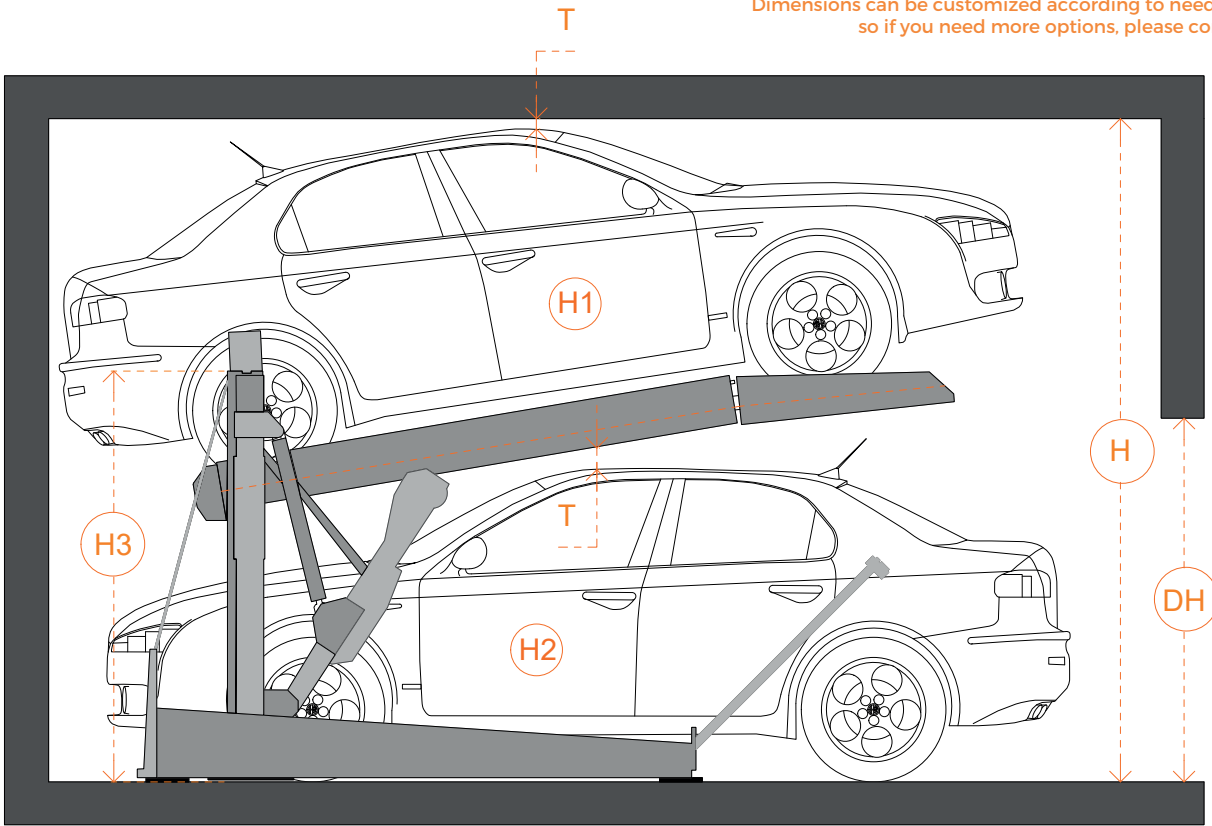
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GENERAL DESCRIPTION

- ▣ Optilift is a dependent parking system for an indoor or outdoor application and it allows 2 vehicles to be parked on top of each other in a parking space that merely allows 1 vehicle under normal conditions. Its angular design allows parking two sedans in a limited parking height.
- ▣ The height, and width of the platform can be customized according to the customer's request (see "Height Details and Width Details", page 3 and 6).
- ▣ The lifting capacity of the platform is 2500 kg.
- ▣ Sanpark provides clear instructions at every operating point. The operating key is installed in front of the columns or on the outside of the door reveal.
- ▣ Hot-dip galvanization is applied to the main construction.
- ▣ It is safe and secured with an automatic electromagnetic mechanic position locker.
- ▣ All dimensions are minimum and tolerance for dimensions +3/-0 cm.

HEIGHT DETAILS

Dimensions can be customized according to needs and projects so if you need more options, please contact Sanpark.



All dimensions are given in cm.

- ▣ The Left and top parts of the table below indicate a vehicle height at the lower level and upper levels. Various combinations of these dimensions determine the total clear height. Various versions are available upon request so please contact to have technical support if it is necessary.
- ▣ Optilift height (**H3**) is 200 cm.
- ▣ Door clear height should be at least 10 cm more than your car height. (**DH**)
- ▣ Clearance height (**T**) between vehicle and ceiling shall be minimum 5 cm. The clearance height is included to the following table.

Operation

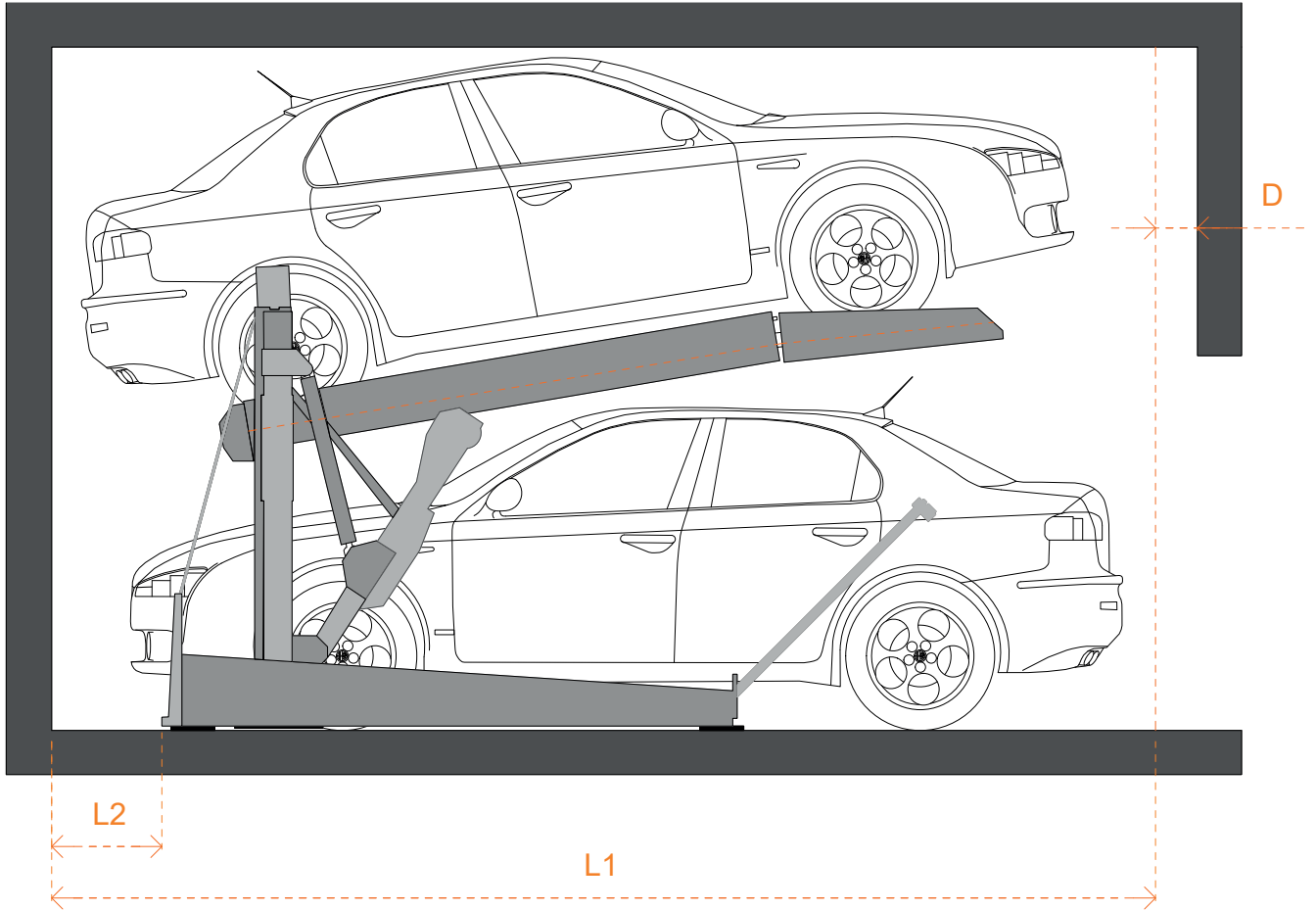
With the help of "Hold-to-Run" device which automatically returns to the "off" position after release, OPTILIFT's users securely operate the system.

		Upper-Level Vehicle Height (H1)					Required Clearance Height (H)
		140	145	150	155	160	
Lower-Level Vehicle Height (H2)	140	270	275	280	285	290	
	145	275	280	285	290	295	
	150	280	285	290	295	300	
	155	285	290	295	300	305	
	160	290	295	300	305	310	

Dependent Parking

To be able to park in or out the vehicles at the top level, the vehicle at the lower levels must be parked out first.

LENGTH DETAILS



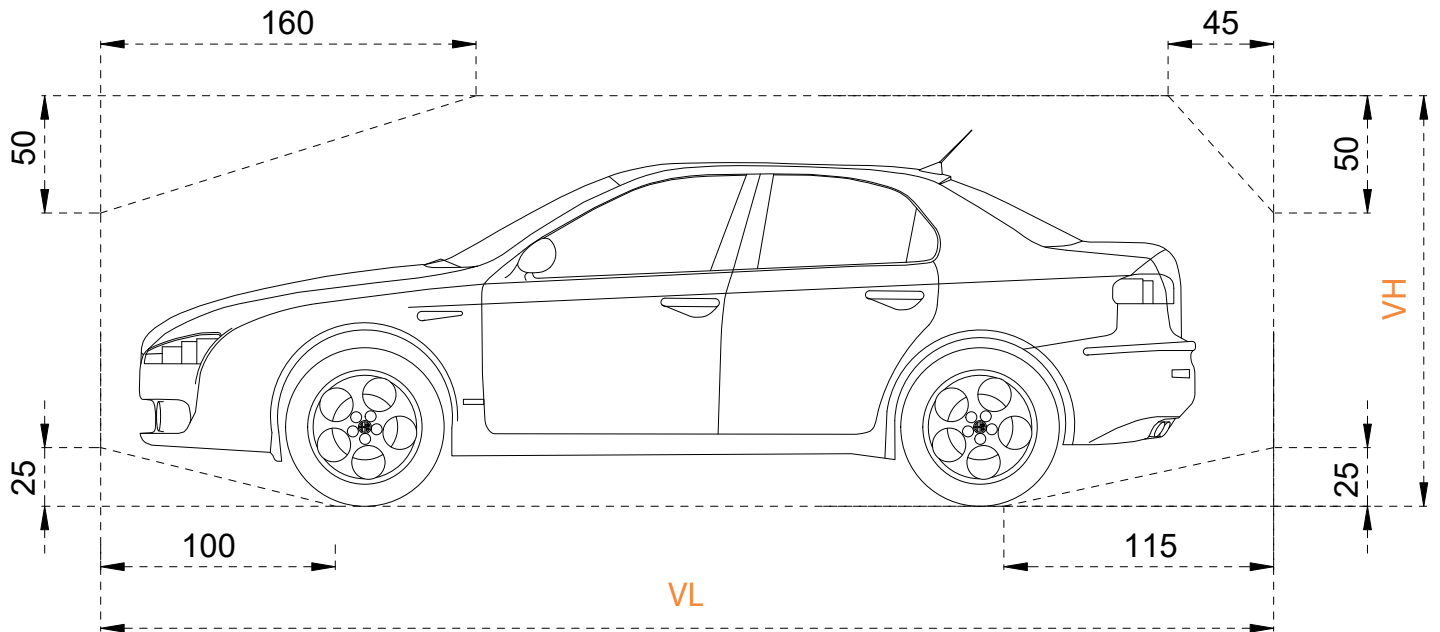
All dimensions are given in cm.

- ▣ Maximum vehicle length dimensions can be like the following table. In case of shorter and longer versions, please consult Sanpark.
- ▣ In case of a garage door installation, doors (**D**) shall be coordinated between the customer and the door manufacturer.
- ▣ Optilift's columns shall be at least 50 cm (**L2**) away from the wall to provide enough clearance for vehicles.

OPTILIFT LENGTH DIMENSIONS

Lower-Level Vehicle Height (H2)	Clear Length of Parking (L1)
140 cm	600 cm
145 cm	625 cm
150 cm	650 cm
155 cm	675 cm
160 cm	700 cm

VEHICLE DETAILS, CLEARANCE & DIMENSIONS



Vehicle Length (VL)	see "Length Details", page 4
Vehicle Height (VH)	see "Height Details", page 3
Vehicle Width	see "Width Details", page 6
Vehicle Weight	2500 KG
Wheel Load	625 KG
Vehicle Types	Saloon, Estate

The overall vehicle height including roof luggage rails and antenna mounts must not exceed the max. vehicle height dimensions specified

▣ The following car heights shared as a guide to help you to select the platform distance and construction dimensions;

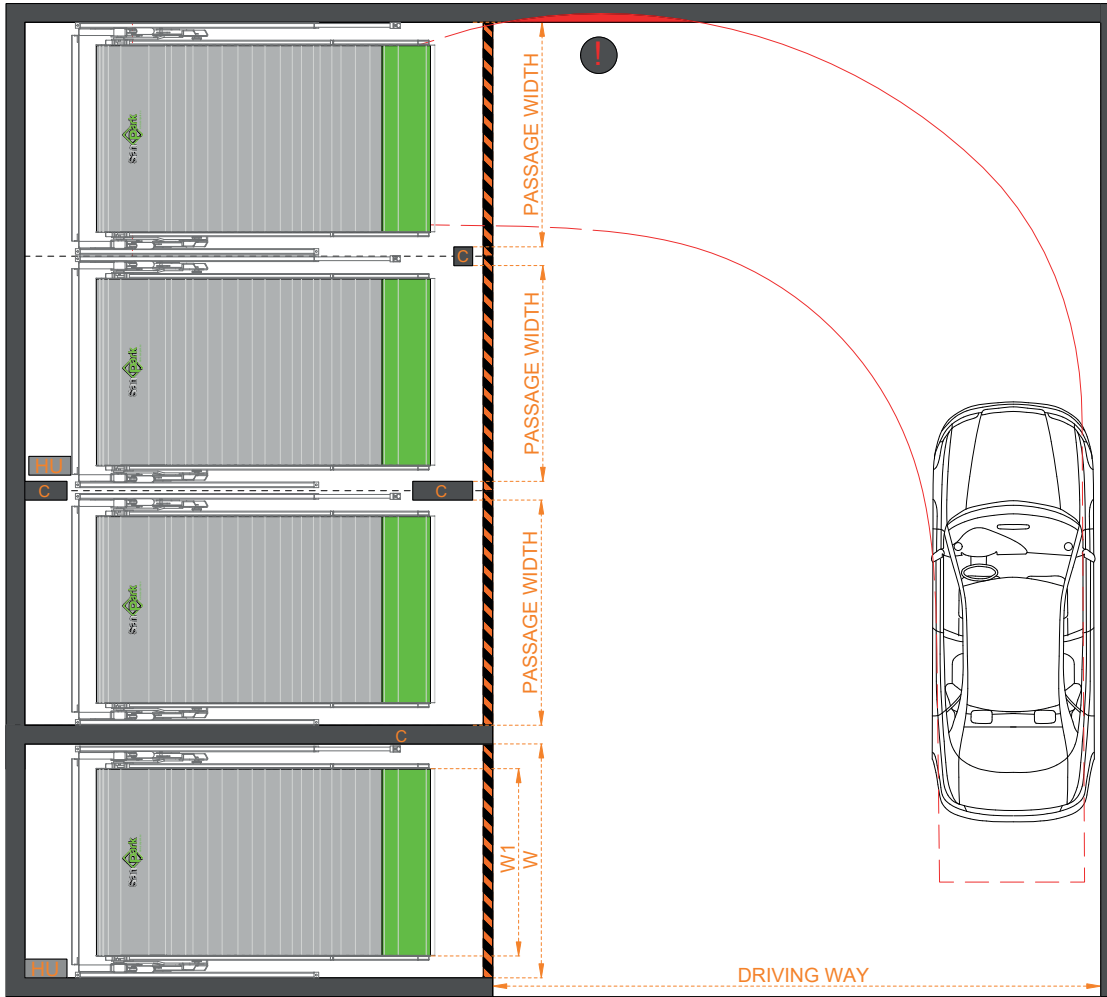
Volkswagen Golf	149 cm
Volkswagen Tiguan	167 cm
Volkswagen T-Roc	160 cm
Volkswagen T-Cross	159 cm
Volkswagen Passat	152 cm
Dacia Sandero	150 cm
Dacia Duster	170 cm
Renault Clio	145 cm
Renault Captur	158 cm
Fiat/Abarth 500	150 cm
Fiat Panda	156 cm

Tesla Model 3	145 cm
Tesla Model X	169 cm
Ford Kuga	169 cm
Ford Puma	156 cm
Mercedes A-Class	146 cm
Mercedes G-Class	198 cm
Mini Hatch	145 cm
Hyundai Kona	156 cm
Opel/Vauxhall Corsa	149 cm
Volvo XC40	166 cm
Skoda Octavia	147 cm
Hyundai Tucson	167 cm

Peugeot 208	146 cm
Peugeot 2008	155 cm
Peugeot 3008	163 cm
Toyota Corolla	144 cm
Toyota Yaris	151 cm
Toyota RAV4	169 cm
Toyota Camry	145 cm
Citroen C3	161 cm
Porsche Macan	163 cm
Opel Calibra	132 cm
Porsche Cayenne	168 cm
BMW 3-Series	143 cm
BMW iX	170 cm
BMW X5	175 cm
Volvo XC 90	178 cm
Land Rover Discovery	189 cm
Land Rover Range Sport	180 cm

All vehicle heights may vary due to the wide range of models and manufacturing year.

WIDTH DIMENSIONS



- The following figures demonstrate the required width for parking areas and their correspondence to clear platform width.

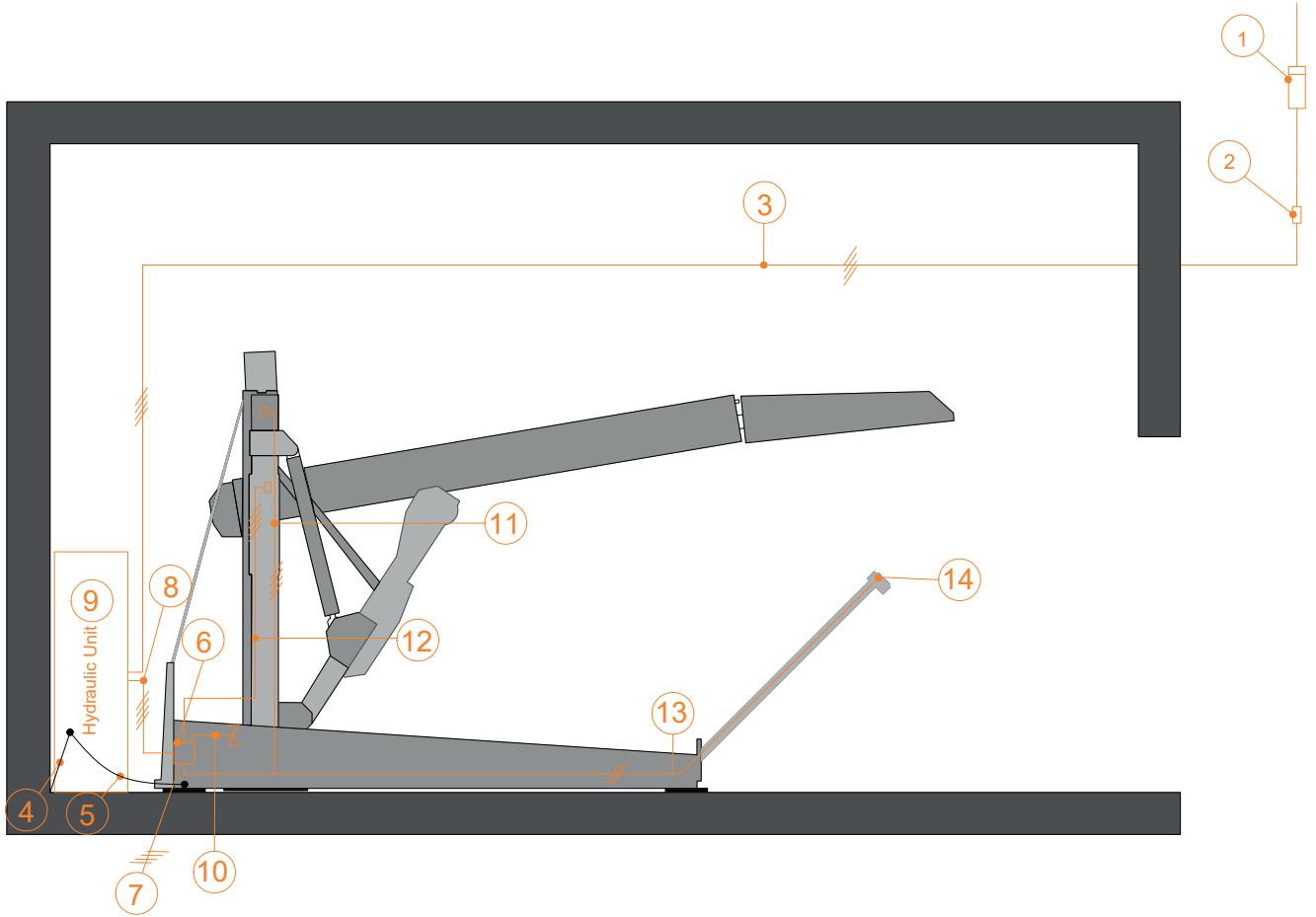
OPTILIFT WIDTH REQUIREMENTS

Installation Width (W)	Clear Platform Width (W1)
250 cm	200 cm
260 cm	210 cm
270 cm	220 cm
280 cm	230 cm

Reducing parking width lowers parking comfort according to the vehicle width, vehicle type, and individual driving style.

- **HU** indicates a hydraulic power pack and its minimum length and width are 30 cm. In case of using one hydraulic pack for more than one optilift, its length increases to 45 cm, and its width increases to 40 cm. Its overall height does not change and it is 115 cm.
- The minimum clear platform width is 200 centimeters for a limited space. We recommend 230 centimeters for convenient parking.
- Optilift columns can be aligned with several types of building columns (C) and in all situations, the passage width between two columns of the building cannot be less than the clear platform width.
- While planning Optilift next to a wall, it is significant to take into consideration that turning the vehicle in one maneuver may cause a crash so please take advice from Sanpark in a such situation, shown in the illustration above.
- While setting driving lane width, please check local regulations. We advise 650 cm driving lane width so that drivers can park their vehicles conveniently without additional maneuvering. The deriving lane width can be reduced according to the project needs but this reduction may lead additional maneuvering. Please request a consultation for planning the project.

ELECTRICITY INSTALLATION DIAGRAM



- During installation, it is required to appropriately connect electrical components with the wiring diagram supplied by the manufacturer in accordance with local regulations.

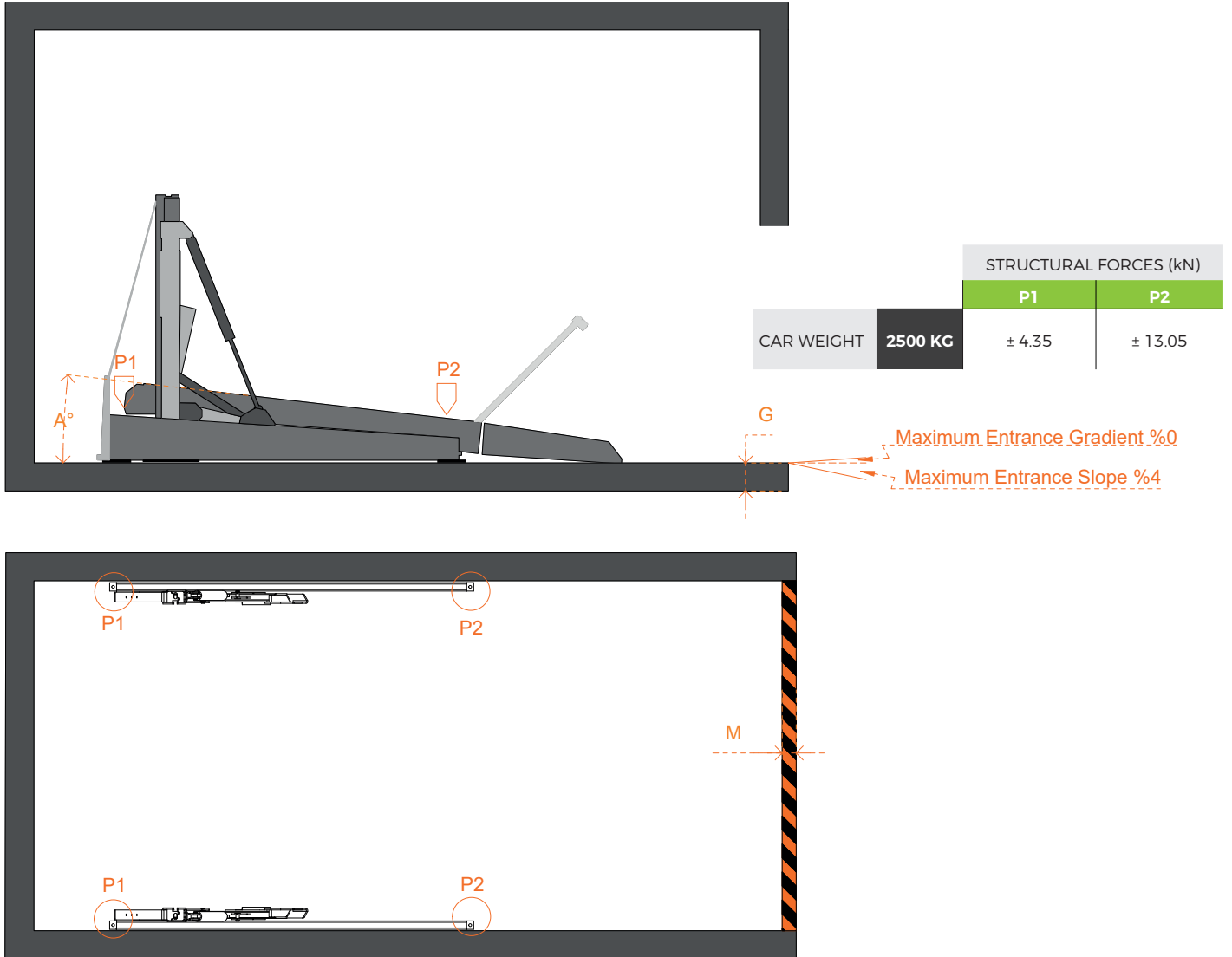
ELECTRICAL DETAILS (In the customer responsibility)

NUMBER	QUANTITY	DEFINITION	FREQUENCY
1	1	Electricity meter	
2	1	3x Safety fuse 16A & Circuit breaker 3x 16A	1 x per unit
3	1	Supply cable 5x2.5 mm ² with marked wire and protective conductor	1 x per unit
4	1	Foundation Earth Connection (distance between grounding max. 10m)	
5	1	Equipotential bonding in accordance with DIN EN 60204 grounding of the steel structure is necessary, provided by the customer	1 x per system

ELECTRICAL DETAILS (In Sanpark responsibility)

NUMBER	DEFINITION
6	Branch Connector
7	Control cable 5x2.5 mm ² lead-out to the system
8	Control line 7x1 mm ² + 2x1.5 mm ² with marked wire and protective conductor
9	Hydraulic Unit 2.6 kW, 3 Phase current, 380V 50HZ with lockable main switch
10	Control line 2x0.75 mm ² with marked wire and protective conductor
11	Control line 4x 0.75 mm ²
12	Control line 2x0.75 mm ² with marked wire and protective conductor
13	Control line 3x0.75 mm ² with marked wire and protective conductor
14	Operating Device

LOADS AND CONSTRUCTION DETAILS



- ▣ The systems are anchored into the ground. The drill hole depth in the floor plate is approx. 10 cm, in the walls approx. 8 cm.
- ▣ Optilift's platform has 7° (A) angle, which facilitates driving on the platform.
- ▣ Concrete quality according to the static requirements of the building. However, we require a slab thickness (G) minimum of 18 cm and a concrete quality of min. C20/25 to anchor the system. A special foundation is required with asphalt floors or paving stones.
- ▣ According to DIN EN 14010, the floor has to be marked with 10 cm wide yellow-black stripes (M) at the edge of the platform by the purchaser to point out the dangerous area. The marking must comply with ISO 3864.
- ▣ Maximum entrance gradient and slope details are specified in the illustrations below. Improper layout causes extreme difficulties and Sanpark does not accept any responsibilities.

TECHNICAL INFORMATION



Installation

Optilift requires crane and forklift for installation. It is under customer's responsibility to provide these vehicles.

The heaviest part is 70 kg so please consult local companies to hire proper crane and forklift. Please request a consultation for more detail about Optilift.



Usage Area

In order to park in or out of the vehicle at the upper level, the vehicle on the ground floor must be parked out first, which is why this system is advised to be used by permanent users. In case of short-time users (e.g. hotel, office, commercial building) we recommend the appointment of a valet for operation conveniently. Please request a consultation if required.



Hydraulic Unit

Up to 6, Optilifts can be grouped as one so they can share the common hydraulic unit to reduce the overall price. In such a case, each group of systems cannot be operated separately. A separate power unit is recommended to reduce dependency. Please request a consultation for planning the project.



Temperature

Optilift is designed to operate between -15° and +40°C at atmospheric humidity of 50 percent. If the local temperature is different from the above, please consult Sanpark.



Conformity Test

All our systems comply with EC machinery directive 2006/42/EC and TS/EN 14010:2009 +A1:2009.



Building application documents

All our systems generally require local approval. Please observe local regulations.



Maintenance

Regular maintenance by qualified personnel can be provided by an Annual Service Contract.



Care and Corrosion Protection

Due to the corrosion danger, apart from regular maintenance, all our galvanized equipment and platforms must be regularly cleaned up salt water, dirt, leak, any chemical substance, and sand. The garage and pits must be always ventilated well.



Railings

If passageways are directly next to the systems, railings have to be provided according to TS EN ISO 13857 by the client according to local requirements, height min. 200 cm.



Fire Safety

All fire safety requirement(s) and all possible mandatory item(s) and equipment(s) must comply with local regulations and must be provided by the customer.



Noise Protection

In compliance with DIN 4109-1 Noise protection: Maximum sound pressure level in living and sleeping areas 30 dB (A).

User noise like accessing the platform, the slamming of vehicle doors, the vehicle's engine, and brake noise are not subject to the requirements.

In order to provide 30 dB (A) in rooms the following conditions are required;

Additional Sanpark noise protection package according to quote.

Insulation figure of the construction of min R'w= 57 dB (in the customer's responsibility)

Walls that are close to the parking systems must be done as a single wall and deflection resistant with min. m'= 300 kg/m2 (in the customer's responsibility)

The solid ceiling above the parking systems with min. m'= 400 kg/m2 (in the customer's responsibility)

At differing constructional conditions, additional sound-absorbing methods are in the customer's responsibility.

COMPONENTS

OPTILIFT PARKING SYSTEM COMPONENTS

2 Steel columns with base plates.
 Mechanical Locking device
 1 Platform
 1 Hydraulic cylinder
 Anchors, screws, connectors, bolts, etc.
 1 Mechanical synchronization system.

Platform Components

Platform profiles
 Side beams
 Adjustable positioning aid
 Platform base sections
 Chamfered ramp
 Screws, nuts, washers, spacers, etc.

Electrical System Components

Emergency stop
 Electro mechanic lock
 Distributor board
 Branch connector
 1 Master key for each Optilift.
 Oil filling
 Internal gear Pump
 Coupling

Hydraulic System Components

Hydraulic cylinders
 Solenoid valve
 Safety valve
 Screwed joints
 High-pressure hoses
 Attachments

Hydraulic Unit Component

Hydraulic power unit
 Hydraulic oil reservoir
 3 phase AC motor (2.6 kW, 380 V, 50 Hz)
 Contactor
 Pressure relief valve
 Hydraulic hoses

Sanpark's engineering department is constantly challenging itself to improve its systems. In the event of technological advancement, Sanpark can adopt newer or different technologies, systems, or standards to improve overall quality.

SERVICES TO BE PROVIDED BY THE CUSTOMER



Warning Marking

According to DIN EN 14010, the floor has to be marked with 10 cm wide yellow-black stripes to indicate the operation area by the purchaser to point out the dangerous area.



Barriers

In accordance with DIN EN 13857, barriers may be required in case of passageways in front of, behind, or next to the systems.

5

Parking Space Numbering

Numbering the parking spaces.



Lighting

It is in the customer's responsibility to check local regulations regarding the illumination of parking spaces.



Conduits and Wall Openings

Any conduit and wall opening work belongs to the customer, yet Sanpark can assist during the planning phase in such cases. Please consult Sanpark if necessary.



Supply Cable to Master Switch

The customer must run the supply cable to the master switch during assembly.



Earth Foundation

The customer must earth the steel structure with a foundation earth connection and lay equipotential bonding according to local regulations.

CERTIFICATES

ZERTIFIKAT | CERTIFICATE | CERTIFICAT | CERTIFICADO | 証明書 | 인증서



EG-BAUMUSTERPRÜFBESCHEINIGUNG

TUV AUSTRIA TURK ist benannte Stelle
nach der Maschinenrichtlinie 2006/42/EG unter der Nummer 2737

Bescheinigung Nr.: 21-MD-TEC-063-TAT-2021-033

Antragsteller : ŞANMAK MAKİNE SANAYİ VE TİC. A.Ş.
Çalı Sanayi Bölgesi Çalı Mh 6. Sk. N:8 Nilüfer / Bursa

Hersteller : ŞANMAK MAKİNE SANAYİ VE TİC. A.Ş.
Çalı Sanayi Bölgesi Çalı Mh 6. Sk. N:8 Nilüfer / Bursa

Design des Produkts : Mehrschichtiger, elektrohydraulischer mechanischer Parklift

Typ/Modell : # IDEALIFT H2W1, IDEALIFT H2W2, IDEALIFT H3W1, IDEALIFT H3W2 #
IDEALOW H2W1, IDEALOW H2W2, IDEALOW H3W1, IDEALOW H3W2 #
MAJORLIFT, MAJORTRIO, OPTILIFT, ROBUST-SLIMO #
SUBLIFT H1W1, SUBLIFT H1W1, SUBLIFT H1W2, SUBLIFT H2W1,
SUBLIFT H2W2, SUBLIFT H3W1, SUBLIFT H3W2

Warenzeichen / Marke : SANPARK

**Norm(en)/
Angewandte Regelwerke:** : 2006/42/EG Maschinenrichtlinie
EN ISO 12100:2010
EN 14010:2003+A1:2009

Diese Konformitätsbewertung wird auf Kundenwunsch gemäß Maschinenrichtlinie 2006/42/EG Artikel 12 3.b ausgestellt. Die in Anhang IV aufgeführten Geräte entsprechen der harmonisierten Norm und Anhang I den grundlegenden Gesundheits- und Sicherheitsanforderungen der Richtlinie. Sie bezieht sich nur auf das jeweilige Muster und dessen technische Unterlagen, die zur Einsichtnahme vorgelegt werden.

Technische Datei Nr : 21-MD-TEC-063/TF-01
MIT* Dokument Nr : MD-2737-2100004
Assessor-ID-Nr. : TU-MD-001
Datum/Ort der Begutachtung : 01.10.2021
Ausstellungsdatum : 09.11.2021
Ablaufdatum : 08.11.2028



TUV AUSTRIA TÜRK
Sıyasetimden
Ali Osman ÖZVEREN

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Revision 02 Datum 09.03.2020

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Çalı Mah. İbali Cad.
Dıng Sk. No:28 PK:34774
Üniversiyet ESTANBUL
E-Mail: info@tuevtrk.at



CERTIFICATE



**ŞANMAK MAKİNA
SAN. VE TİC. A.Ş.**

ÇALI SANAYİ BÖLGESİ 6. SOK. NO:8
NILÜFER / BURSA / TÜRKİYE

*Has been assessed and found to Comply with the Requirements of:
Denetlenmiş ve aşağıdaki standartları gerektiklerine uygunluğu görülmüştür:*

ISO 9001:2015

*The Quality Management System is applicable to:
Kalite Yönetim Sistemi:*

**DESIGN, PRODUCTION AND SERVICE SERVICES OF MACHINES
FOR VEHICLE, LOAD LIFTING AND TRANSPORT**

**TASIT, YÜK KALDIRMA VE TAŞIMA AMAÇLI MAKİNALARIN
TASARIMI, ÜRETİMİ VE SERVİS HİZMETLERİ**

Certificate Number: QMS-05807
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Initial Certification Date: 15.12.2021
İlk Belgeleme Tarihi: 15.12.2021

Certification Period: 3 Years
Belgeleme Periyodu: 3 Yıl

Certificate Validity Date: 14.12.2022
Belge Geçerlilik Tarihi: 14.12.2022



INTERNATIONAL
ACREDITATION FORUM



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Management Systems
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MSCB-135



IQR Sertifikasyon Örgütü

IQR ULUSLARARASI BELGELENDİRME HİZMETLERİ LTD.ŞTİ.
Beşevler Mah. Kocayusu Ssk. No:3 Arslan Han Plaza K:2 Nilüfer / BURSA
Tel.: +90.224.268 00 16 Fax: +90.224.268 41 15 www.iqrcert.com e-posta: info@iqrcert.com