

SIMIAN VEHICLE LIFTS



Trendy minimalist
geometric flat style



Direct
Drive



2 pistons /
4 pistons



Scissors Lifts

FEATURES

Simian Vehicle Lifts may be defined as ecological for their low energy consumption, their use of few materials and for their total weight up to 40 – 60 % lower than other electric and hydraulic goods lifts. This also means less power consumption for the manufacture and the transportation of the lift.

Vehicle lift *standard versions	VL 30	VL 35	VL 40	VL 45
Description	These vehicle lifts are ideal for multi-level parking garages, both underground and above ground			
Rated load (kg)	3000	3500	4000	4500
Forces acting upon the car sill (kg)	1800	2100	2400	2700
Door lighting (mm)	2300	2400	2600	2800
Door type	Doors with central opening and 6 panels			
Drive	2:1 Hydraulic with 2 pistons, 1:1 Hydraulic with 1 piston			
Max. speed (m/s)	0.15			
Number / entrance types	1 – 2 opposed			
Standard head (mm)	3400			
Min. head (mm)	3200			
Standard pit (mm)	1200			
Min. pit (mm)	1000			
Max. travelling height (m)	Approx. 20 m with standard pit (1200 mm) and standard head (3400 mm). Additional travelling height possible with enlarged pit/head			
Lift cabin height (mm)	2000 – 2600			
Shaft type	Reinforced concrete / Brickwork			

- The perfect solution for multi-story factories and warehouses.
- Vehicle lifts are ideal for multi-level parking garages, both underground and above ground

- It is possible to call the vehicle lift by remote control.



load capacity ranging from 2,000 to 12,500 kg

VEHICLE LIFT



INFO

The Simian Lifts feature the worldwide unique GMV technology, the direct drive 1:1 application, which keeps the car floor the stable during loading operations of several-ton forklifts.

The goods passenger lifts are equipped with direct drives and 2 or 4 telescopic pistons with mechanical synchronization type EC or TCS (for narrow shafts). If necessary, pawl devices are used to further stabilize the lift car floor during loading operations with forklifts.

- Besides their longevity, these solutions, unique in the world, are appreciated for their simplicity and easy installation.
- A very important parameter to consider when choosing a large capacity lift is the grade of withstanding torsions and forces. In case of load capacity equal to or higher than 2,500 kg, the lift standards recommend to take into account an acting force on the car sill equal to 60 % of the rated load if loaded by pallet trucks, and equal to 85 % of the rated load if loaded by forklifts. The fulfillment of these conditions is not easy. It requires not only the direct drive 1:1 application but also a proper designing of the car frame and car floor sills. In many factories all over the world, inappropriate goods passenger lifts are in service. After the first run, it emerges that only small devices may enter for loading operations, and despite of their large size, cabins are often overloaded.
- In terms of safety as well, the Simian Lifts are unparalleled, since there are no masses such as the counterweight and the engine suspended above the car roof, no traction ropes holding the lift car. The machine room is located in a separate space, which ensures the safe installation and upcoming maintenance operations.





Fig. Standard VL lift



Fig. H option

Option H for vehicles with roof box

AVOX provides Simian Lifts in the H version (VL30 H, VL35 H, VL40 H, VL45 H and S-VL H) with raised cabin and the door sizes up to 2,6 m for access of vehicles with a roof box.

The Simian Vehicle Lift is a special version of a goods passenger lift produced with the GMV hydraulic technology, traditionally used for the transport of persons and goods and now adapted to the transport of vehicles.

The Lifts feature the direct drive 1:1 application, allowing to keep the car floor stable while entering with a vehicle. Moreover, the lift shafts are characterized by extremely small dimensions in relation to the car size.

These vehicle lifts are ideal for multi-level parking garages, both underground and above ground. The advantages in terms of gaining parking lots and a future rental income are evident.

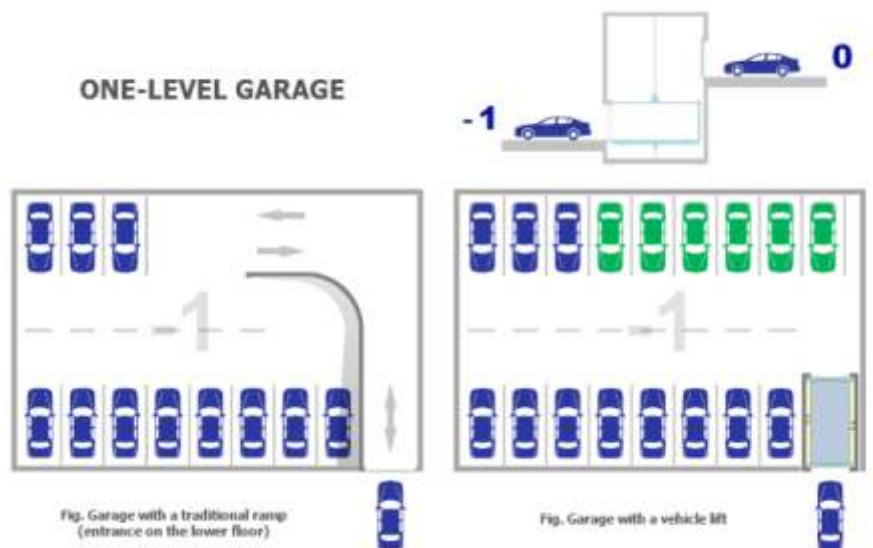
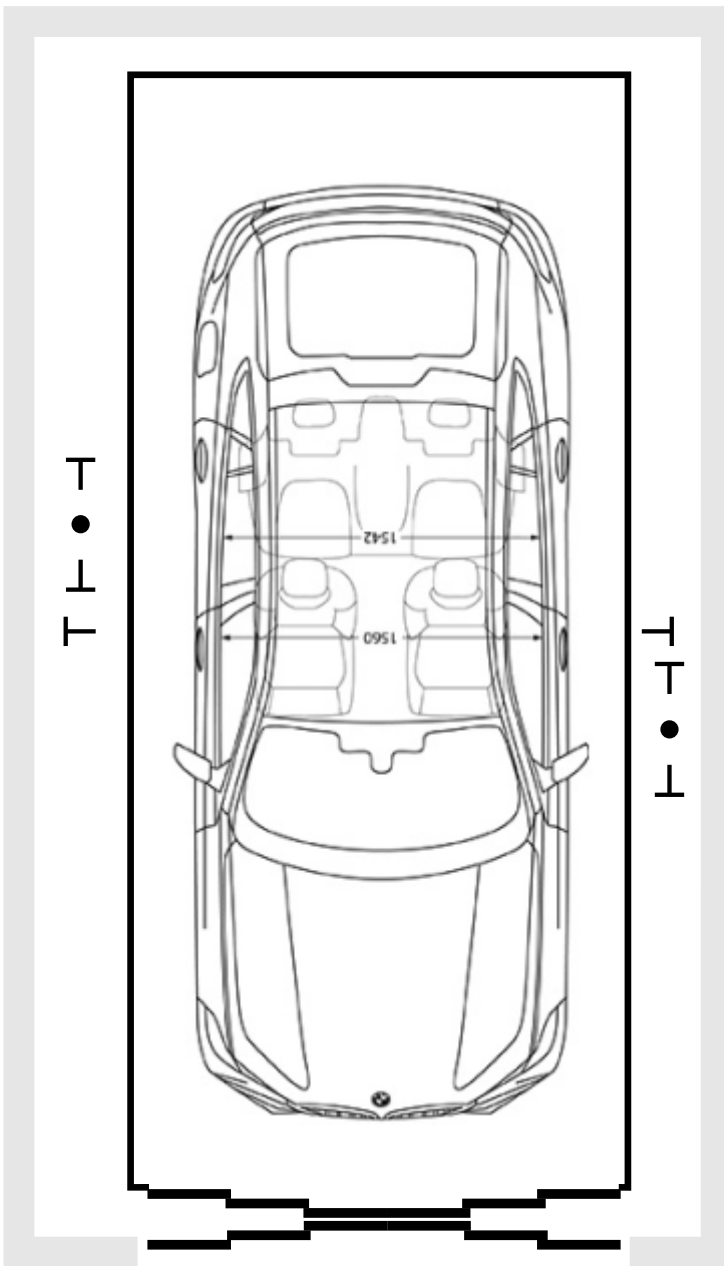


Fig. Garage with a traditional ramp (entrance on the lower floor)

Fig. Garage with a vehicle lift

LIFT DIMENSIONS LARGE SUV

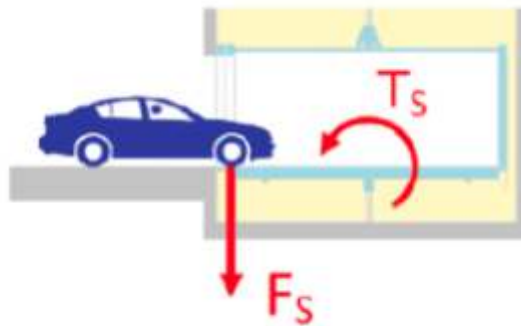
*cabin width : 2400mm
cabin depth : 5400mm
shaft width : 3250mm
shaft depth : 5850mm
door opening : 2300mm*



FORCES ON CAR SILL

AN IMPORTANT PARAMETER: THE FORCE ON THE CAR SILL F_s

A critical loading situation is given by a car entering the vehicle lift. These conditions have to be taken into account when projecting a vehicle lift. The force (F_s) acts upon the car sill. The car, the car frame and the T-guides should be strong enough to withstand forces and torsions (T_s).





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