SWISS-PARK

A LÖDIGE INDUSTRIES COMPANY

CAR LIFT - RISE-P



Technical data sheet

- ✓ TÜV certified
- ✓ CE certified
- ✓ With driver on board
- ✓ GSM
- ✓ Low noise
- ✓ Space saving
- ✓ Emergency battery
- ✓ Manual emergency lowering
- ✓ Positioning aid
- ✓ Drive-through sensors

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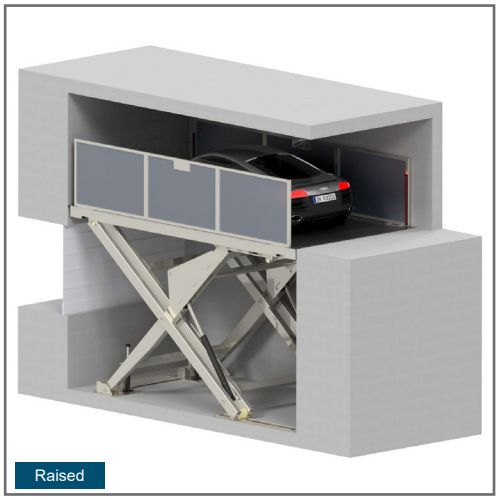
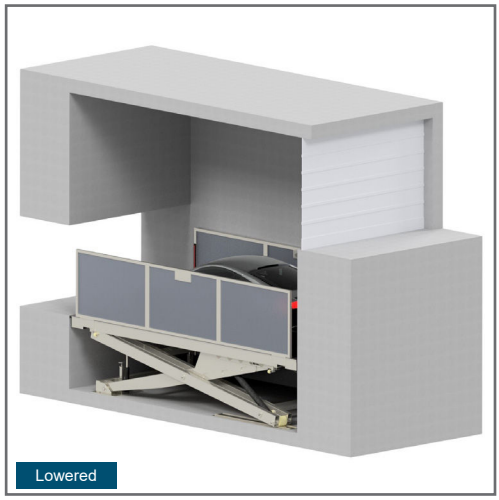
RISE-P
▶ Car lift

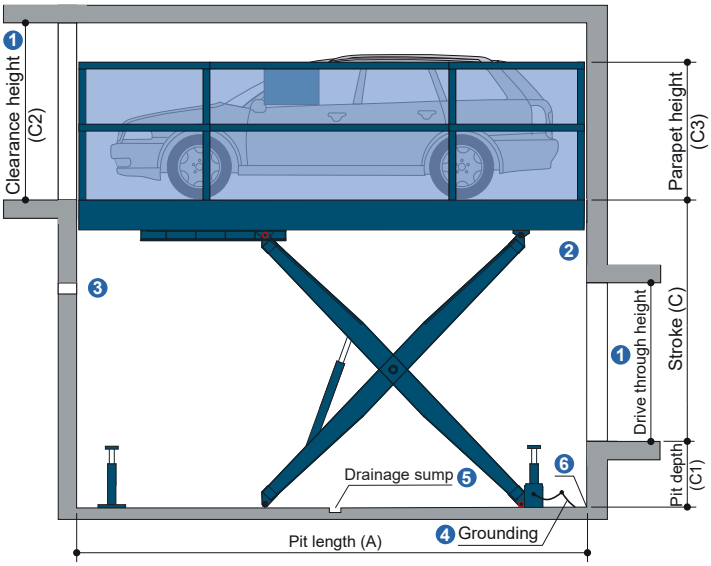

Raised

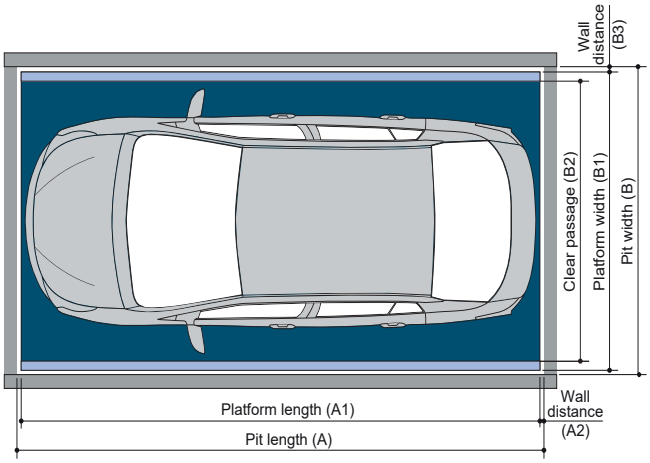

Lowered

▶ Specification

- Stroke = up to 3700 mm
- Platform length = up to 5950 mm
- Platform width = up to 2900 mm
- Standard lifting capacity = up to 2500 kg
- Optional lifting capacity = up to 3500 kg
- Estimated speed = 7 to 10 cm/sec

▶ Model with driver on board





Parameter		Min. (mm)	Max. (mm)
Pit length	A	5100	6000
*Platform length	A1	5050	5950
Wall distance	A2	25	
Pit width	B	2500	3000
Platform width	B1	2400	2900
Clear passage	B2	2300	2800
Wall distance	B3	50	

Parameter		Min. (mm)	Max. (mm)
Stroke	C	2700	3700
Pit depth	C1	550 to 650	
Clear passage	C2	to be defined	
Parapet height	C3	1200	2100

*Please note: The choice of platform length and width depends on the vehicles to be moved. Define these dimensions according to the building project.

▶ Notes

1. Minimum clearance height: 2.50 m.
2. Finished dimensions tolerances of the lift shaft: **+3 / -0 cm**.
3. Ventilation inside the lift shaft must be provided by the builder. Please observe the applicable regulations. If the exact dimensions are required, please consult **Lödige Industries**.
4. Grounding of the system to be connected to the central grounding on-site (to be provided by the builder).
5. Drainage pit. Alternatively: fixed installation of a pump. Important: request the load area plan to ensure correct pit placement.
6. At the transition section between the pit floor and walls, no hollow mouldings/coves are possible. If hollow mouldings/coves are required, the systems must be designed narrower or the pit wider.

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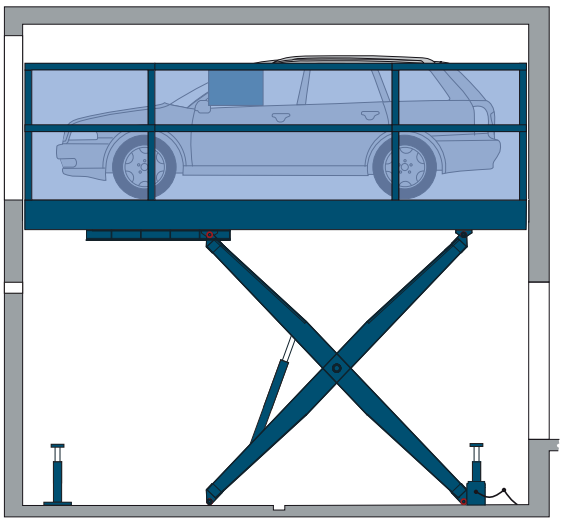
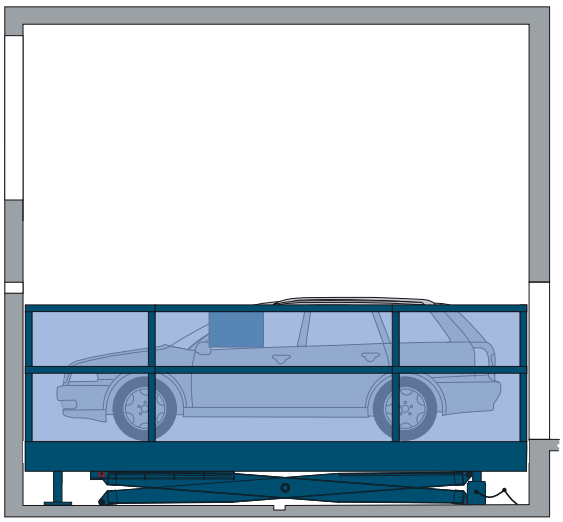
▶ Lift position

System raised

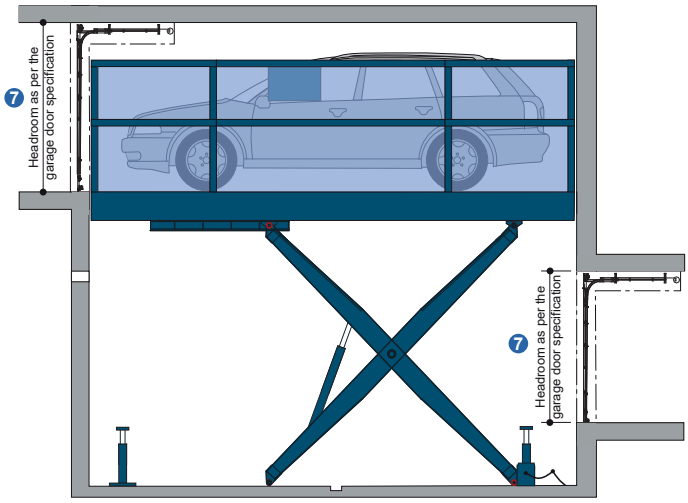


System lowered

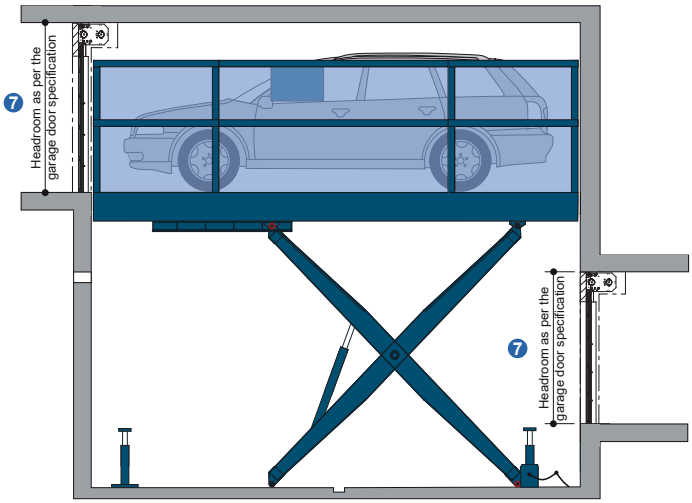


▶ Lift with garage door

Sectional garage door

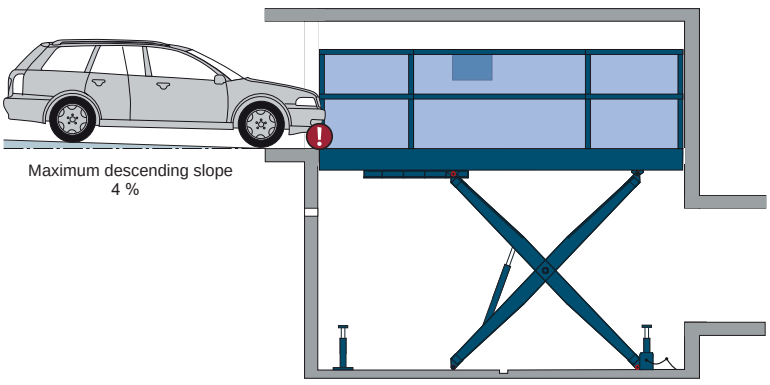


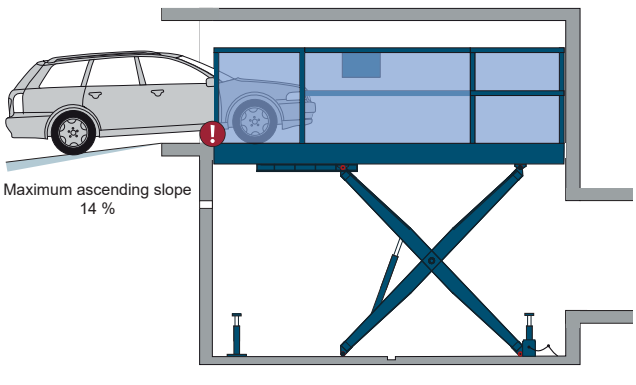
Roll-up garage door



7 Dimensions for all doors must be coordinated with the doors supplier.
Coordination between the gate manufacturer and **Lödige Industries** is required. Ensure during planning that the gates do not collide with the parapets.
Refer to the information at swiss-park.com/door.

▶ Approach





The maximum access slopes indicated in the schematic must not be exceeded.

Incorrectly executed access may cause significant difficulties when driving onto the system, for which **Lödige Industries** is not responsible.

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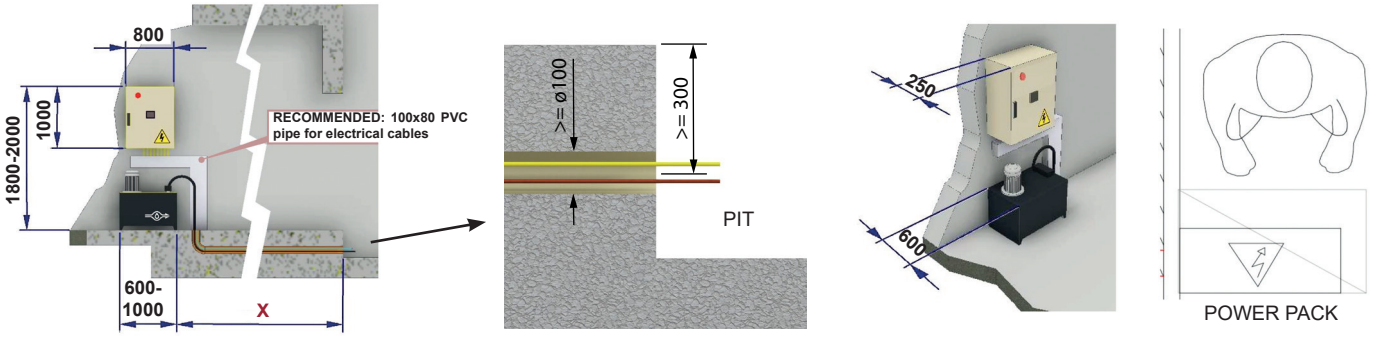
▶ Detail building construction – Hydraulic & Electric unit

The room housing the hydraulic unit and control cabinet should be carefully selected and easily accessible from the outside. The room must be lockable with a door (including panic function).

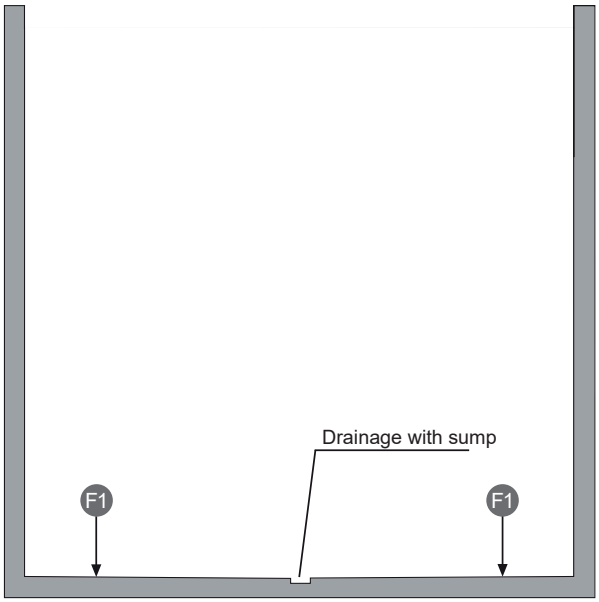


- Shaft pit and drive unit room must be coated with oil-resistant paint (to be provided by the builder).
- The technical room must have sufficient ventilation to prevent overheating of the electric motor and hydraulic oil (< 50°C). Lighting must also be provided by the builder.
- Please ensure the PVC conduit is used for proper cable routing.
- For the cables from the control cabinet to the technical pit, 2 empty conduits with a minimum diameter of 100 mm must be provided. Avoid bends > 90°. Maximum distance: 13 meters.
- When positioning the control cabinet and hydraulic unit, consider the specified dimensions and provide sufficient space in front of the control cabinet to allow easy maintenance.

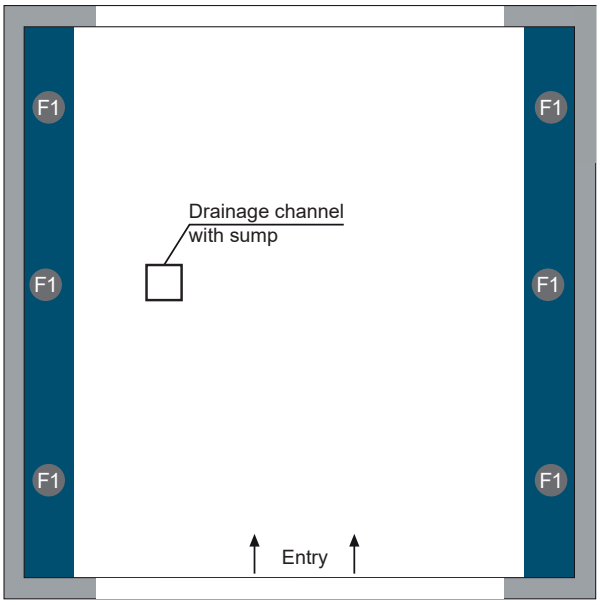
▶ Load plan

- The car lifts are anchored into the side walls and ground. The drill hole depth on the floor is approx. 15 cm, and on the walls approx. 12 cm.
- Floor and walls below the drive-in level must be made of concrete (concrete quality min. C20/25)!
- The dimensions of the load-bearing points are approximate. If the exact dimensions are required, please consult **Lödige Industries.**

Section view



Top view



Force (kN)
F1
+35

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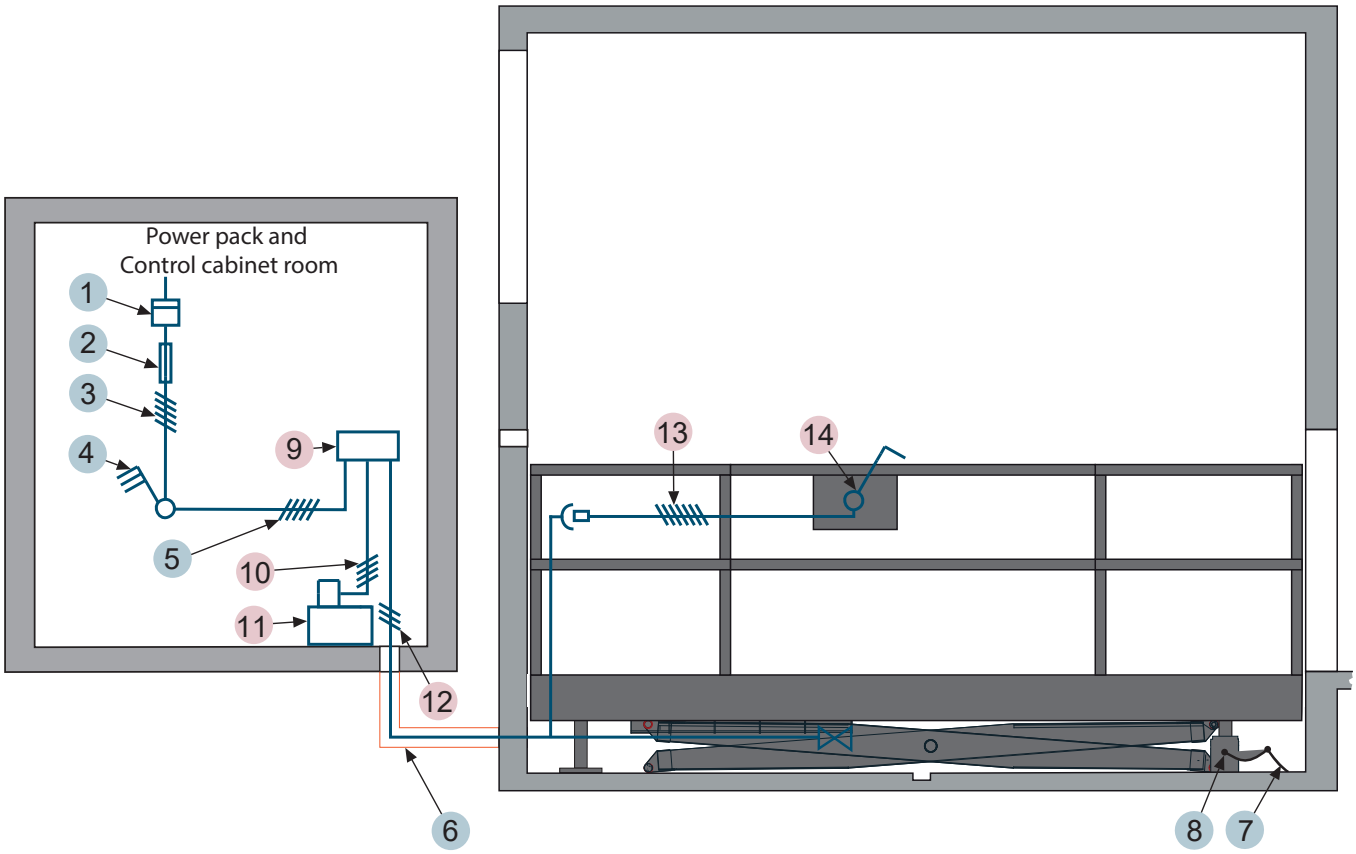
▶ Electrical installation



Electrical data
to be performed by the customer

No.	Qty.	Description	Position
1	1	Electricity meter	in the supply line
2	1	Main fuse : 3 x fuse 32 A (slow) or circuit breaker 3 x 32 A (trigger characteristic K or C) (Current - 10.6 A, **Starting current - 13.8 A**)	in the supply line
3	1	Supply line 5 x 4 mm² (3 PH + N + PE) with marked wire and protective conductor	to main switch
4	1	Lockable main switch	defined at the plan check
5	1	Supply line 5 x 4 mm² (3 PH + N + PE) with marked wire and protective conductor	from main switch to unit
6	2	Min. ø100 pipes	from power pack and control cabinet to pit floor
7	every 10 m	Foundation earth connector	corner of pit floor
8	1	Potential equalization from foundation grounding connection system according to DIN EN 60204	

Electrical data
included in delivery of **Lödige Industries**

No.	Designation
9	Junction box unit
10	Supply line 5 x 4 mm² (3 PH + N + PE) with marked wire and protective conductor
11	Hydraulic unit - 5.5 kW, three phase current, 400 V, 50 Hz
12	Control line 5 x 2.5 mm² with marked wire and protective conductor
13	Control line 5 x 2.5 mm² with marked wire and protective conductor
14	Operating device

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▶ Technical hint

Scope of use

The car lift is suitable for indoor installation and for lifting cars with the driver on board. It is a car lift in accordance with the Machinery Directive, operated via dead-man control. The car lift is suitable for both residential and office buildings. Please contact **Lödige Industries** for consultation.

Units

Low-noise hydraulic units are installed. We also recommend separating the garage body from the residential building. The hydraulic unit and the electrical components are recommended to be housed in a cabinet or separate room. (see **"Detail building construction – Hydraulic & Electric unit"**, page 3).

CE certification

The systems offered comply with the EU Machinery Directive 2006/42/EC.

Building application documents

According to the EC Machinery Directive 2006/42/EC, the **swiss-park** systems are subject to approval. Please observe the local rules and regulations.

Available documents

- Maintenance offer / contract
- Declaration of Conformity

Environmental conditions

Environmental conditions for **swiss-park** systems:

- Temperature range -10 °C to +40 °C
- Relative humidity of 50% at a maximum outside temperature of +40 °C.

If lifting or lowering times are specified, these refer to an ambient temperature of +10 °C and a system installed immediately next to the hydraulic unit. At lower temperatures or with longer hydraulic lines, these times will increase.

Maintenance & Protection

To prevent corrosion damage, please follow the separate cleaning and maintenance instructions (see "**Corrosion Protection**" sheet) and ensure good ventilation of your garage.

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▶ Facilities to be provided by the customer

Safety barriers
During the car lift construction, in accordance with DIN EN ISO 13857, safety barriers are to be placed immediately in front of, adjacent to, or behind the systems where there are roadways.

Building services
Lighting, ventilation, fire extinguishing, and fire detection systems must comply with the relevant legal requirements.

Ventilation
To ensure continuous air exchange, reduce humidity, prevent condensation, and minimize cabin moisture (from rain, snow, etc.), we recommend providing a suitable ventilation system in consultation with a specialist. This helps minimize the risk of corrosion and related malfunctions.

Lighting
The client must comply with local regulations regarding lighting in the lift shaft.

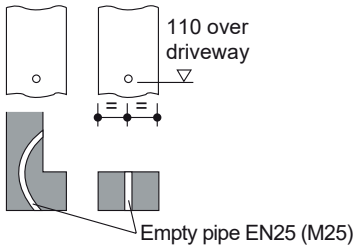
Drainage
A pump or drain must be installed in the sump of the lift shaft to prevent standing water (component damage caused by standing water is no longer covered under warranty). The surrounding drainage channel must be connected to the sewer system. For environmental protection, we recommend installing oil and gasoline separators at the connections to the public wastewater system.

Electrical supply of main switch / Grounding connection
The supply line to the main switch must be provided by the builder during installation. Functionality can be verified by our engineers on-site, or in collaboration with the electrician. If this is not possible during installation due to reasons attributable to the client, the client must hire a licensed electrician.

Grounding of the steel structure must be provided by the builder via a foundation earth electrode (maximum grounding distance 10 m) and equipotential bonding according to DIN EN 60204 (see "**Electrical Installation**," page 4).

Control panel
Empty conduits and recesses for the operating element (see **"Electrical installation"**, page 4). Consultation with **Lödige Industries** is required when using folding doors.

Control panel on plaster



Accessibility
For installation by **Lödige Industries**: free access to the pit with a crane or truck for lowering the lift. For completion, the lift must also be drivable by a car. The area around the pit must be compacted by the builder to allow crane operation.

Additional Builder Responsibilities
- Construction of the shaft according to our specifications and in compliance with legal requirements; shaft lighting if required
- Measures to comply with water protection regulations
- Measures to comply with fire protection regulations and sound insulation according to DIN 4109
- Empty conduits for the unit according to data sheet and drawings
- Free (drivable and compacted) access to the pit with a crane or truck for lowering the lift; road closure if necessary
- Telephone line (PSTN) including connection to the control cabinet for emergency call activation; emergency call activation is mandatory. LAN connection without firewall
- Gates for shaft closure. Note: 230 V (single phase) and potential-free contact required. Refer to gate data sheet
- Up-to-date project photos if required
- Foundation grounding if necessary
- All permits and approvals
- Control line from main switch to unit
- Costs for final technical approval by an authorised expert
- Ongoing costs for emergency call activation and occupant rescue

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▶ Description - Car lift with driver on board

General description

- **Lödige Industries** car lifts are suitable for lifting and lowering cars with the driver on board
- Dimensions according to the underlying pit, width, and height specifications
- Positioning of the car on the lifting platform via bilateral position sensors (to be set according to the operating manual)
- Operation via an operating element with dead-man control
- The operating element is usually mounted in front of the entrance or on the gate jamb outside
- For lifts with gate closure, special dimensions must be observed

swiss-park system consisting of:

- 1 Rigid base with foundation (floor-mounted)
- 1-3 Hydraulic cylinders
- 1 Platform
- 4 Scissor members
- 4 support beams for assembly work
- 4 / 8 Nylon guide rollers
- Dowels, screws, fasteners, connecting elements etc.

Platform consisting of:

- Checker plates
- Side fence
- Crossbeams
- Clamps
- Screws, nuts, etc.

Hydraulics consisting of:

- Hydraulic cylinders
- Solenoid valve
- Safety valves
- Hydraulic lines
- Hydraulic fittings
- High-pressure hoses
- Mounting materials

Electrical system consisting of:

- 2 Operating elements (Emergency-stop, lock, access via RFID)
- Up to 4 safety light curtains for edge control
- Junction box unit
- Control cabinet

Hydraulic unit consisting of:

- Hydraulic oil tank
- Oil filling
- Internal gear pump
- Pump holder
- Coupling
- Three-phase motor (5.5 kW / 7.5 kW, 400 V, 50 Hz, low noise)
- Pressure gauge
- Pressure relief valve
- Hydraulic hoses (to reduce noise transmission to the hydraulic pipes)

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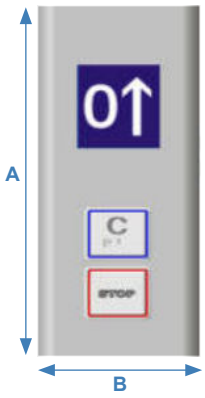
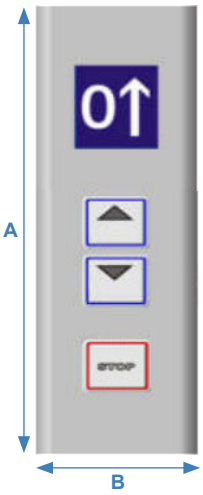
► Operating elements including dimensions (surface-mounted)

MODEL A	MODEL B	MODEL C	MODEL D
			
A = 245 mm B = 90 mm	A = 290 mm B = 90 mm	A = 225 mm B = 90 mm	A = 225 mm B = 90 mm

We reserve the right to change these specifications without prior notice!

Lödige Industries reserves the right, in the course of technical progress, to use newer or alternative technologies, systems, processes, methods, or standards than those originally offered, provided that no disadvantage arises for the client.

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