

ELEKTROFIT®

Electric traction lift with the gearbox in the pit and direct suspension (1:1)

Main features

Lifts in compliance with ELEKTROFIT models are characterised by the gearbox placed in the pit. The control panel, main supply and light switches are placed inside a cabinet beside a landing door.



Major points

There is no need for a machine room. The gearbox is located completely inside the shaft, so that there is no need for any building work.

Most of the lift load is applied to the car and counterweight guide rails, thus no beam connecting to the shaft walls is necessary.

Inside a cabinet beside a landing door there are all the components normally installed in a standard machine room (the control panel, main and light switches, thermostat for temperature detection, lighting lamps, etc.).

Safety

Rescue operations can be carried out from outside the shaft, once the cabinet front panel has been opened. It includes an auxiliary emergency operation assuring the functioning of the system even in case of failures such as motor main winding, brake solenoid, control panel cards and main inverter.

The auxiliary emergency operation devices operate even in case of power failure.

Type of drive

Electric

Rated load

max. 630 kg

Travel

max. 36 m

Pit

min. 1500 mm

Headroom

min. 3550 mm

Number of floors served

up to 24

Rated speed

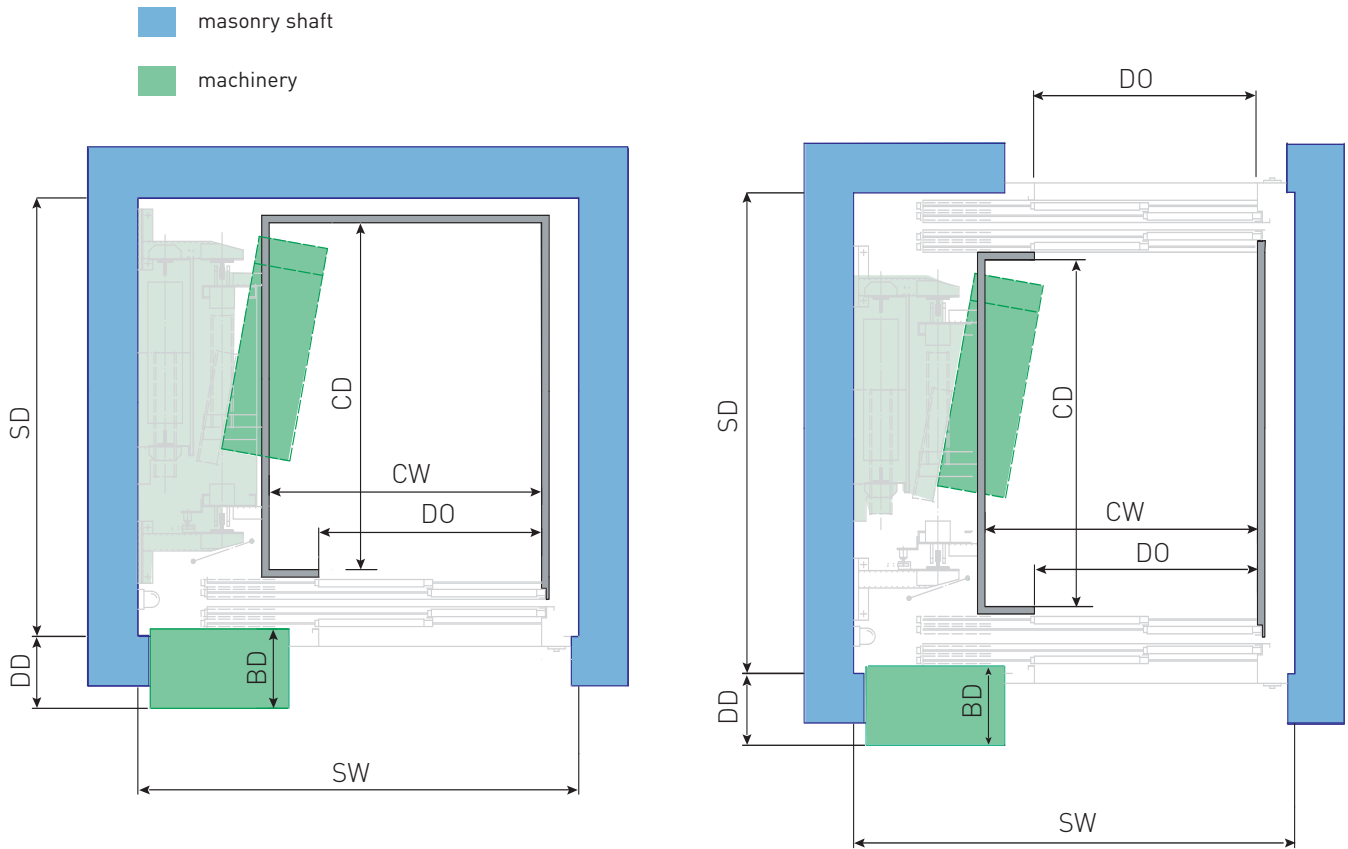
max. 1 m/s

In contrast to some competing models with the gearbox located at the top of the shaft and the consequent transmission of vibrations to nearby rooms, with the ELEKTROFIT models the noise and vibrations caused by the machine are limited as that they are at the bottom of the shaft.

Owing to the frequency control system, which uses a high quality inverter, a high standard of ride comfort, reduced current consumption peaks and consequent energy and money saving, reduced mechanical stresses and reduced temperature of the gear motor are obtained.

The gearbox is fixed in the pit on a frame, therefore its position is extremely stable and maintenance operations are carried out by standing on the pit floor.

The control of the car position during gearbox maintenance is assured by the safety system provided.



The plan of the shaft at the landing shows where the cabinet including the controller, the main and lighting switches are placed. At the other landings the cabinet area must be replaced by a masonry structure.

Examples of cars, doors and shafts dimensions, in case of 2-panel telescopic doors

Rated load [kg]	No of car entrances	Car dimensions		Door opening	Shaft dimensions			
		CW	CD		SW	SD	BD	DD
375	1	800	1200	750	1450	1570	320	290
375	2	800	1200	750	1450	1740	320	290
480	1	950	1300	800	1600	1670	320	290
480	1	950	1300	850	1600	1670	320	290
480	1	950	1300	900	1600	1670	320	290
480	2	950	1300	800	1600	1840	320	290
480	2	950	1300	850	1600	1840	320	290
480	2	950	1300	900	1600	1840	320	290
630	1	1100	1400	800	1750	1770	320	290
630	1	1100	1400	900	1750	1770	320	290
630	2	1100	1400	800	1750	1940	320	290
630	2	1100	1400	900	1750	1940	320	290

Dimensions are in mm. Loads and car dimensions different from those shown here are available, even with 2 adjacent entrances