



# Optimus *gearless*

Designed for **building refurbishment** and **modernisation** projects. The machine room-less electric lift that best utilizes the available shaft.

- **Advantages:**

**Flexibility:** allows single, double and triple entrances. Ideal for projects with adjacent entrances.

**Energy efficiency:** possibility of operating on a single-phase supply.

**Optimisation:** easily assembled steel work. Self-supporting.

**Adaptability:** possibility of installing it with limited pit depth and headroom clearance due to the certificates which enable us to further reduce these measures.

With Ralbe's Optimus, the required space is no longer the critical detail that needs to be considered first when deciding whether to install an electric or hydraulic lift in an existing building. This electric lift uses the existing shaft equally efficiently as a hydraulic lift.

When an old building is being refurbished for new usage, many times the old lift is being replaced as well. While doing so, the goal is to make optimal use of the shaft and to realize the largest possible car size. Where up until today a hydraulic lift had to be installed, the Optimus now is providing a real alternative.

The electric lift, which is available with or without machine room and comes with gearless propulsion, can also be used with a monophase current and merely requires 300mm space on the side of the rucksack frame. Further space-optimization is guaranteed by mounting guidance and counterweight rails in the same layer.

• **Technical characteristics:**

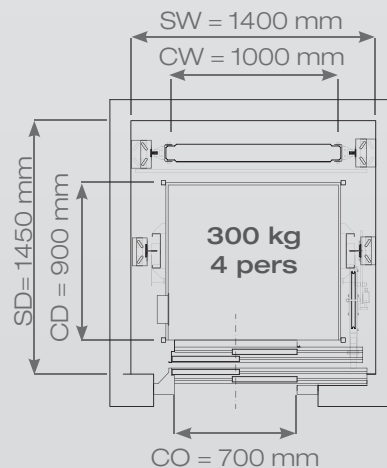
<b>Nominal speed</b>	1 m/s > CONSULT
<b>Nominal load</b>	up to 1000 kg > CONSULT
<b>Cable</b>	6,5 Ø
<b>Output</b>	from 0,7 kw
<b>Suspension</b>	1:1 up to 320 kg 2:1 (450 kg - 1.000 kg)
<b>Standard headroom</b>	3.600 mm.
<b>Standard pit</b>	1.200 mm.
<b>Travel</b>	up to 45 m.
<b>Control unit</b>	Installed in door frame*

\*Automatic doors 120 mm.

Q (kg)	Nominal Output (kw)	Nominal Intensity (A)	Min. Headroom <sup>(1)</sup> (mm)	Min. Pit. (mm)
100	0,7 - 0,9	1,2 - 1,8	3.150	200
180	1,2 - 1,5	2,6 - 3,4	3.150	200
320	2,0 - 2,5	5,0 - 6,0	3.150	200
450	3,2 - 3,8	8,0 - 9,0	3.150	200
630	4,5 - 5,1	10,0 - 12,0	3.400	570
800	5,7 - 7,2	14,5 - 21,5	3.450	850
1000	7,1 - 8,6	21,0 - 25,7	3.450	850

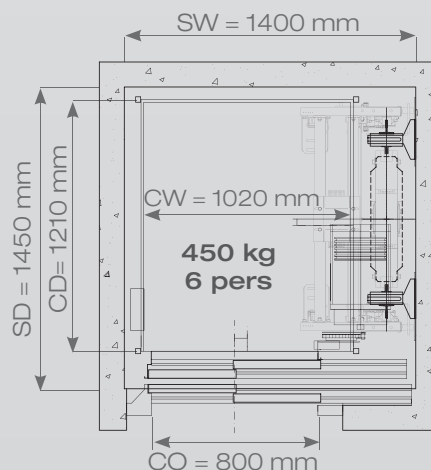
<sup>(1)</sup> Depends on: doors, lateral machine and car height.

• **Electric standard**

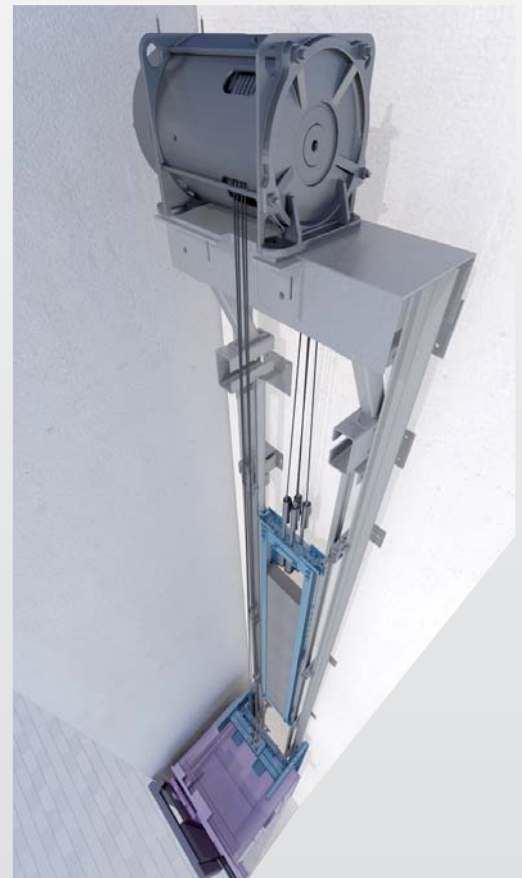


• **Optimus**

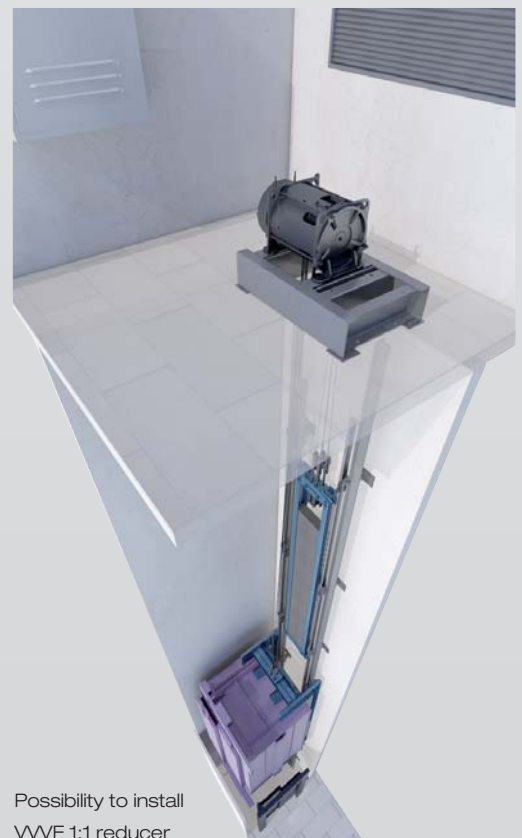
To make better use of the shaft



• **Without machine room**

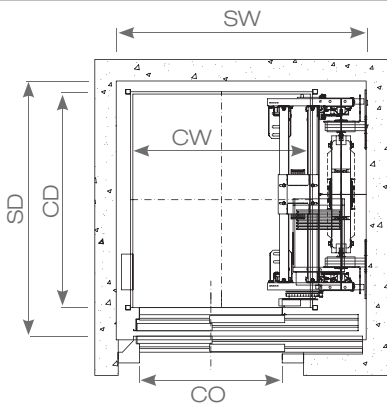


• **With machine room**



Possibility to install VWF 1:1 reducer

### Drawing of landing

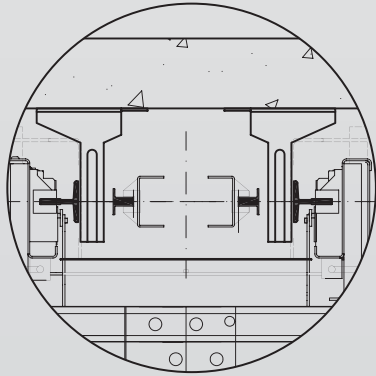


SW: SHAFT WIDTH  
SD: SHAFT DEPTH  
CW: CAR WIDTH  
CD: CAR DEPTH  
CO: CAR OPENING

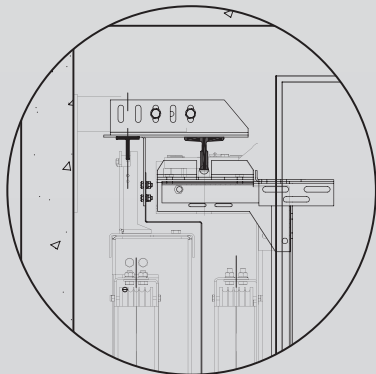
Q (kg)	SW	SD	CW	CD	CO
100	800	930	680	500	600
180	800	1150	680	720	600
225	1250	1000	850	790	700
320	1280	1250	900	1000	700
450	1400	1450	1020	1210	800
630	1500	1650	1120	1410	800
800	1810	1750	1300	1500	900
1000	1610	2370	1100	2100	900

### Guides position

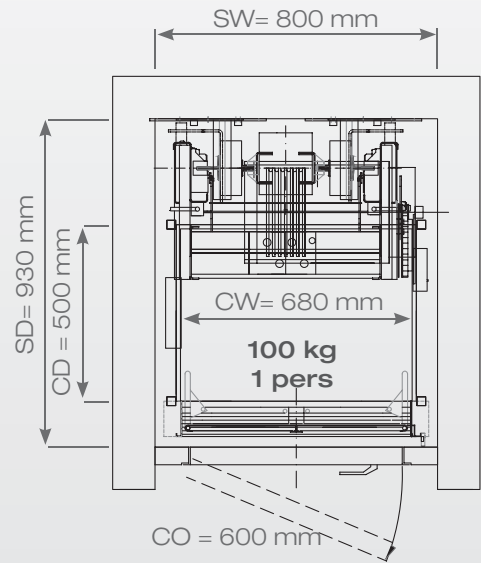
#### Line



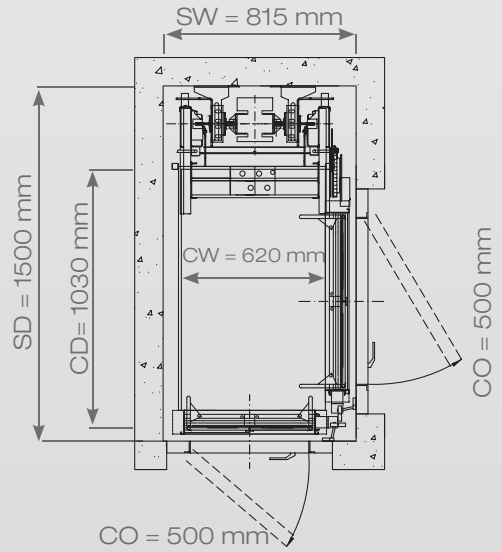
#### Parallel



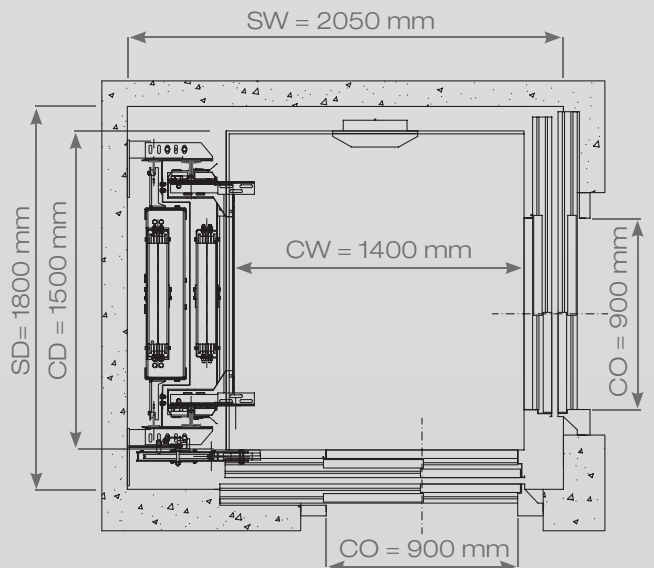
### Minimum shafts standard



### Double entrance 90° special



### Double entrance 90° 1000 kg



• With Mody machine



• Dimension "0"



Thus in old buildings for instance, a new level which previously had not been accessible to handicapped people can be opened up. In order to make this house accessible to handicapped people, a bulky ramp had to be erected previously. Now the Optimus renders it possible to access the lift directly from street level and hence flattens the height difference between the building's entrance and the street. Since the pit depth is only 200mm (up to a 450kg load) even old buildings can easily be equipped with this lift.

