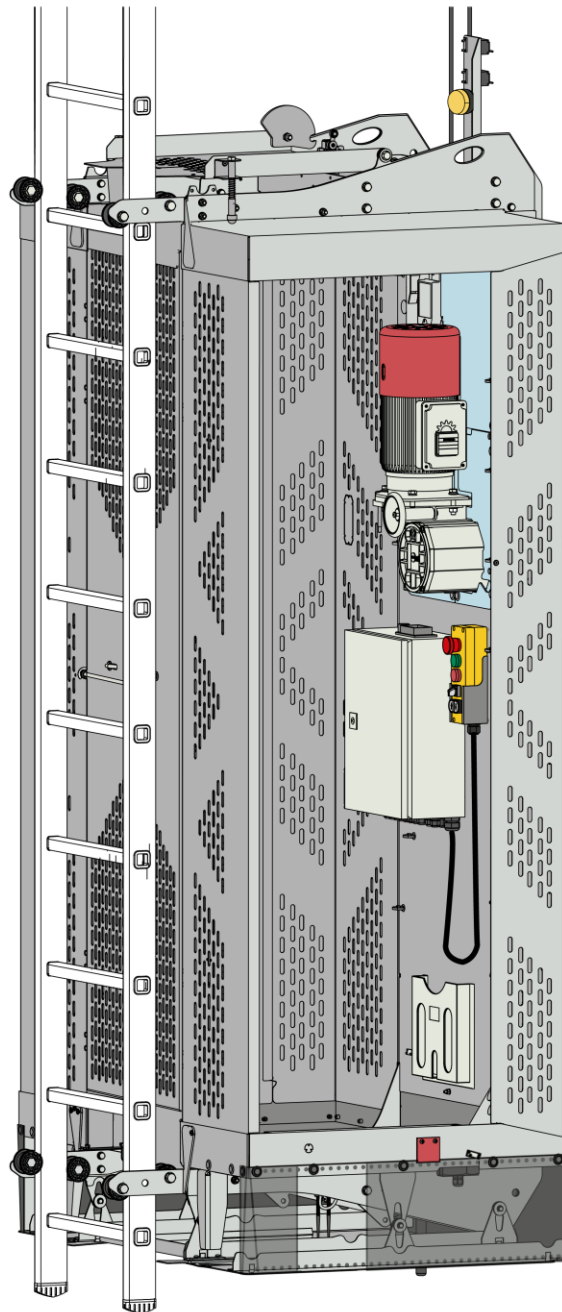


**HIGH LEVEL ACCESS SOLUTIONS**



# TOPlift L1 + edition

Technical data sheet  
Original document

EN

V01R00  
2020-01

## 1 Technical Data

Dimensions and weight	TOPlift L1 + edition
Total height	2790 mm
Total width	950 mm
Total depth	962 mm
Min. space requirement for clearance of the cabin	Min. 1080 x 1080 mm (width x depth)
Empty weight	159 kg
Permissible payload	Max. 250 kg
Passenger capacity	Max. 2 persons
Max. travel route height	200 m
Dimensioning of the fixed access ladder DIN EN ISO 14122-4:2016	60x20, 60x25, 72x25 mm For a detailed calculation of the ladder profile, please contact Hailo Wind Systems.
Dimensioning of the suspended structure (hitching attachment)	27 kN For a detailed calculation of the support structure dimensioning, please contact Hailo Wind Systems.

Ambient conditions	Value
Ambient temperature	- 20 °C to + 55 °C
Storage temperature	-40 °C to +60 °C

Electrical equipment	Value
Mains voltage / supply voltage of the rope hoist	400 V
Power consumption	Max. 2.5 kW
IP (protection class)	IP 54
Frequency	50 / 60 Hz
Back-up fuse (residual current circuit breaker)	FI 30 mA must be available on site
Back-up fuse (circuit breaker)	LS 10 A

Fall arrester	Value
Manufacturer	Hailo Wind Systems
Type	HWL 608 CE 18
Weight	5.2 kg
Payload	600 kg
Tripping speed	42 ± 1 m/min

## Technical Data

Rope hoist	Value	
Manufacturer	Hailo Wind Systems	
Type	HW 608 CE 18	
Weight	44 kg	
Rated voltage	400 V	
Rated power	2.2 kW	
Rated current	4.5 A	
Frequency	50 / 60 Hz	
	Operation at 50 Hz	Operation at 60 Hz
Payload / Tractive force	600 kg	560 kg
Speed	18 m/min	22 m/min
Speed	2820 rpm	
Power factor	0.9	
Emission sound pressure level	75 dB(A)	
Safety device	Thermal protection/overload limiter	

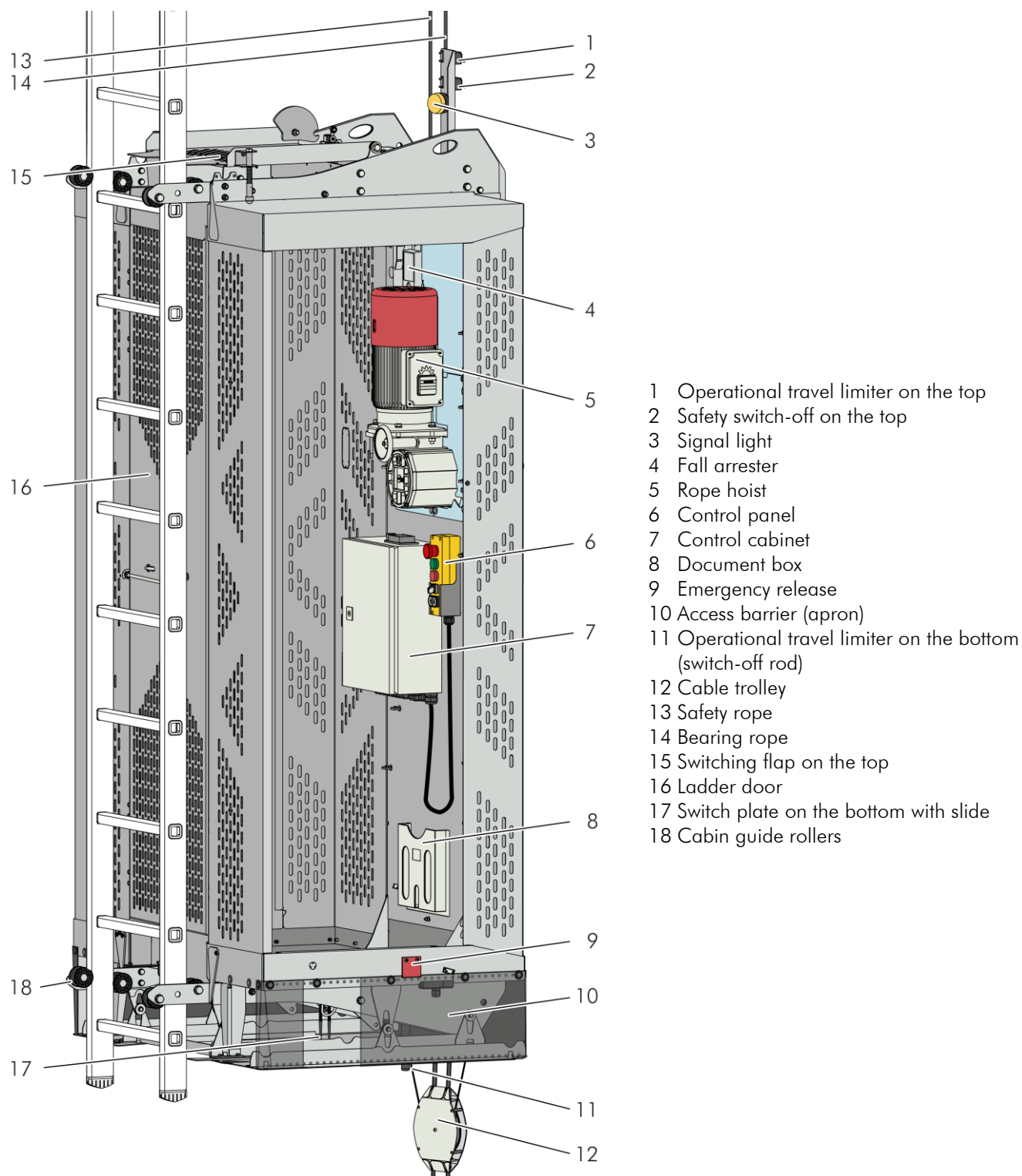
Support and safety rope type 1	Value	
Manufacturer	Pfeifer Drako	
Type	5 x 19S SFC 1960 B sZ with blue stroke	
Diameter	8.4 mm	
Breaking load	55 kN	
Rope grade	1960	
Corrosion protection	Galvanized	
Standards	Ropes according to EN 12385 / DIN 15020	

Support and safety rope type 2	Value	
Manufacturer	DWH Drahtseilwerk Hemer	
Type	5 x K19S SFC 1960 B sZ Cross section compacted (hammering method) with green cord	
Diameter	8.4 mm	
Breaking load	56.8 kN	
Rope grade	1960	
Corrosion protection	Galvanized	
Standards	Ropes according to EN 12385 / DIN 15020	

## Technical Data

Support and safety rope type 3	Value
Manufacturer	DWH Drahtseilwerk Hemer
Type	5 x 26WS SFC 2400 B sZ
Diameter	8.2 mm
Breaking load	56.3 kN
Rope grade	2400
Corrosion protection	Galvanized
Standards	Ropes according to EN 12385 / DIN 15020

## 1.1 Product overview



- 1 Operational travel limiter on the top
- 2 Safety switch-off on the top
- 3 Signal light
- 4 Fall arrester
- 5 Rope hoist
- 6 Control panel
- 7 Control cabinet
- 8 Document box
- 9 Emergency release
- 10 Access barrier (apron)
- 11 Operational travel limiter on the bottom (switch-off rod)
- 12 Cable trolley
- 13 Safety rope
- 14 Bearing rope
- 15 Switching flap on the top
- 16 Ladder door
- 17 Switch plate on the bottom with slide
- 18 Cabin guide rollers

Fig. 1: Main components of the service lift

## 1.2 Safety and optional equipment

### 1.2.1 Rope hoist and fall arrester

Rope hoist and fall arrester  
Goracon

- Two braking systems in the rope hoist (1): Electromagnetically released spring-loaded brake and centrifugal brake
- Fall arrester (2) (fall protection)
- Overload limit
- Handwheel for manual ascent
- Emergency manual descent

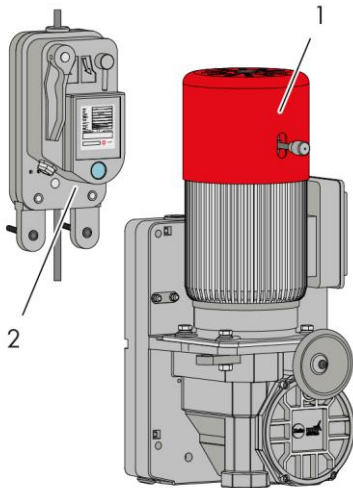


Fig. 2: Rope hoist and fall arrester

### 1.2.2 Travel limitations and safety switch-offs

- Top travel limitation
- Safety switch-off on the top (limit switch)
- Switch-off flap on the top (3) and exit to the top

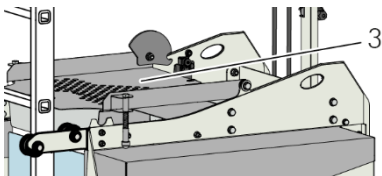


Fig. 3: Switch-off flap on the top

- Switch-off plate and slider on the bottom (4) and exit downwards

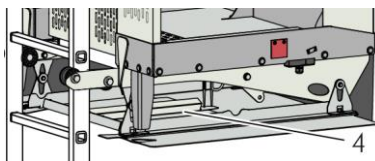


Fig. 4: Switch-off plate and slider on the bottom

- Collision protection on climbing side (Safety switch-off) (5)

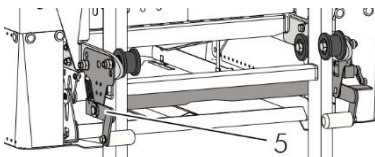


Fig. 5: Collision protection on climbing side

## 1.2.3 Control and operating elements



Fig. 6: Control panel in the service lift

- Control panel in the service lift
- Emergency stop button on the control panel and outside of the service lift

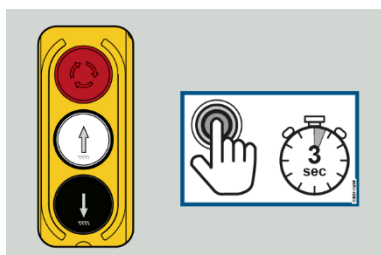


Fig. 7: Control panel outside of the service lift

- Control panel outside of the service lift (Automatic operation)

## 1.2.4 Doors and locking

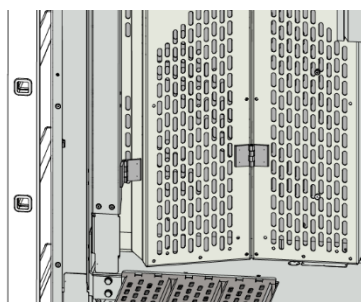


Fig. 8: Ladder door for emergency exit

- Ladder door for emergency exit

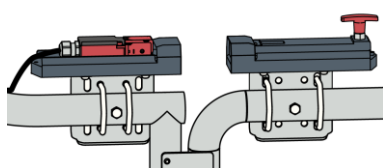


Fig. 9: Electric interlocking+

- Electrically supported interlocking to monitor the locking of the railing door.

## 1.2.5 Cabin elements

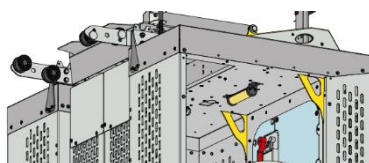


Fig. 10: Attachment points inside

- Attachment points

## Technical Data

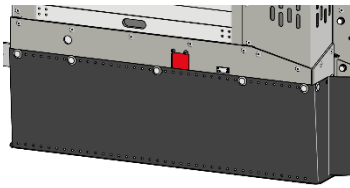


Fig. 11: Apron



Fig. 12: Cabin light and emergency battery

- Access barrier (apron)
- Cabin light and emergency battery
- Signal light on the top (optical warning signal when service lift moves)