# AVANTI



**SERVICE LIFT CATALOGUE** 

2019

#### **AVANTI SERVICE LIFT CATALOGUE 2019**

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You can download this brochure from our website www.avanti-online.com, and also find other information, such as:

- Other Avanti product ranges and services
- Manuals and instalation instructions
- Certificates
- Information about training and service provided by Alimak Service

## **AVANTI SERVICE LIFTS**

## **WIRE GUIDED SERVICE LIFTS**

Shark L Beluga L NEW GE L Dolphin Stingray SWP L SWP XL

## **RACK PINON SERVICE LIFTS**

Pegasus L Pegasus XL

## **LADDER GUIDED SERVICE LIFTS**

Octopus XL120 Octopus L95/L95 HD Octopus L80

# **Safe Work in Wind Turbines**

Through high quality safety products and solutions for wind turbine towers we help our customers make wind energy more cost competitive.



Pegasus L

Pegasus XL

SWP L

**SWP XL** 

## **WIRE GUIDED SERVICE LIFTS**

#### The Avanti Shark, SWP, GE, Dolphin and Beluga lifts

The wireguided service lift from Avanti is a vertical access solution in which service lifts are guided on wires. The flexible wire guiding ensures that the service lift is steered smoothly though the openings in the wind turbine platforms with a few centimetres between the service lift and platform.

The service lift cabin is constructed using seawater resistant aluminum. It's design is optimized to minimize its weight and to be used in harsh environments such as near shore and offshore turbines.

The wire guided service lift operates completely independently of the safety ladder system in the tower. The service lift traction wire, safety wire and two guiding wires are installed on the suspension beam which is installed on the top of the turbine tower.

These two guiding wires are mounted and tightened in the basement of the turbine tower with a Tension Spring System. The electric cable of the lift is housed in a collect bin in the basement of the tower. The cable coils up in the bin when the lift is descending. When the turbine is in operation and the service lift is not used the electric cable remains coiled which means that there is no risk of wear or damage on it due to oscillation and vibrations caused by the turbine sway. We also offer a travelling cable system for these lifts.

#### **Benefits of Wire Guided Service Lifts**

#### Seawater resistant

Even in off-shore and near-shore conditions, this lift will not rust or be worn out by seawater.

• Can be operated without power

If there is a power loss in the turbine, the lift can be operated manually. Emergency descend functions also during a power loss. It can be lowered slowly to the bottom of the tower.

#### Stop and Go

Stop and Go anywhere in the tower. Perform repairs or exit the lift anywhere in the tower to perform inspections and maintenance.

#### Safe operation

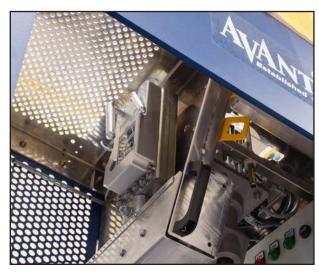
The lift only moves when all doors are closed. The lift is operated with a hold to run control. Safe operation of the lift is our highest priority.



# Shark L



Wire Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	186 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE





# Beluga L



Wire Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	175 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE

# GE L



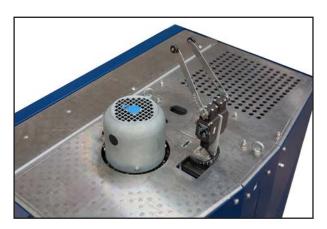
Wire Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	250 kg
Weight of lift (max.)	190 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE



# **Dolphin**



Wire Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	165 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE





# **Stingray**



Wire Guided Service Lift	
Main door type	Bucket type
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	175 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE



## **SWP L**



Wire Guided Service Lift	
Main door type	Roller door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	165 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE

#### **Avanti SWP Service Lifts**

An example of a customised solution for a major customer in the wind industry. The lift is perfectly fitted to meet the requirements of the customer's tower design using the well proven technology from Avanti Wind Systems wire guided technology.



## **SWP XL**



Wire Guided Service Lift	
Main door type	Sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	320 kg
Weight of lift (max.)	200 kg
Max. Nº persons	3 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE





## **RACK PINON SERVICE LIFTS**

### The Avanti Pegasus Service Lift

Can be used during construction and commissioning of the wind turbine tower. The rack pinion Pegasus service lift from Avanti delivers a high level of safety for technicians working in wind turbines.

The service lift may be used to transport two people plus their tools and equipment to work at the most convenient height on the tower.

The Pegasus lift is guided by the ladder and a travelling cable system.

The Avanti Pegasus lift is manufactured with sea-water resistant aluminium and also uses hot dip galvanized steel (painted) togther with high quality components.

## Benefits of the Avanti Rack Pinion Service Lift

#### Cost effective

The lift is suitable for steel and concrete wind turbine towers.

#### High safety and easy evacuation The evacuation option both via the top and bottom hatch is a safe and easy option for

technicians working in wind turbines.

#### Safe operation

The lift only moves when all doors are closed. The lift is operated with a deadman's switch. Safe operation of the lift is our highest priority



# Pegasus L



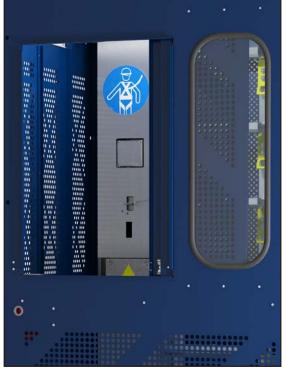
Rack Pinion Service Lift	
Main door type	Double door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	250 kg
Weight of lift (max.)	225 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE



# **Pegasus XL**



Rack Pinion Service Lift	
Main door type	Full sliding door
Service lift speed	18.5 m/min ± 10 % (50Hz)
	22.8 m/min ± 10 % (60Hz)
Rated load	300 kg
Weight of lift (max.)	360 kg
Max. Nº persons	3 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE



## **LADDER GUIDED SERVICE LIFTS**

## **The Avanti Octopus Lift**

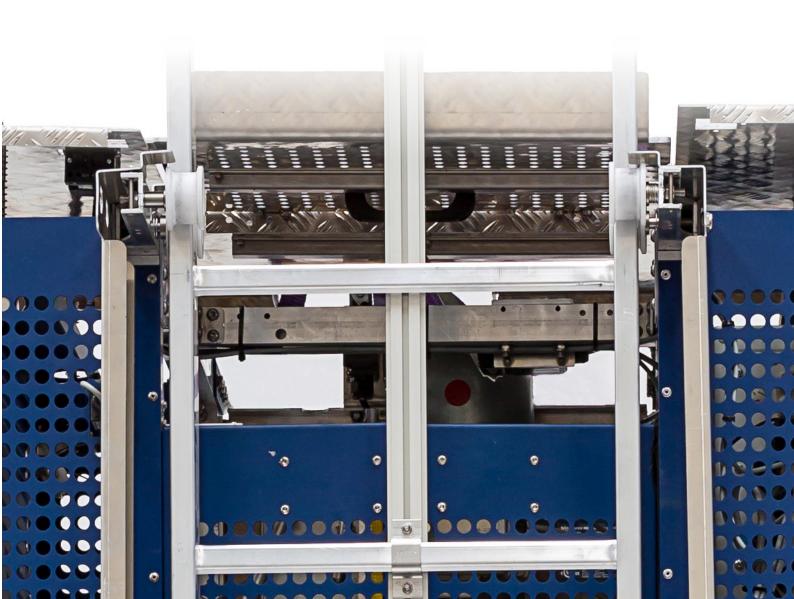
The ladder guided lift from Avanti Wind Systems ensures that the lift cabin does not sway when travelling. Smooth movements are ensured while travelling up the tower. The system uses the existing safety ladder system to guide its travel path.

#### **Benefits of the Avanti Octopus Service Lift**

- Cost effective safety ladder Systems
  Less space needed for lift+ladder (synergies).
  More economical ladder than a steel ladder with a rack welded.
- Better stability during travelling Better feeling of comfort for the user.
- Less manpower
  Less manpower needed at Tower Factory

and on site to make the final adjustments. Less manpower needed on site.

• Complete Safety
Easy evacuation to the ladder.



# Octopus XL120

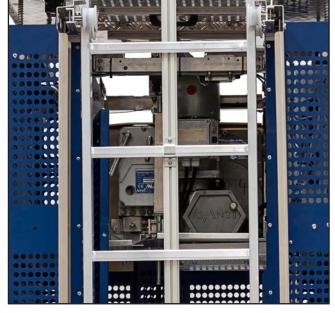


Ladder Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	300 kg
Weight of lift (max.)	250 kg
Max. Nº persons	3 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE

## Octopus L95/L95 HD



Ladder Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	192 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE



## **Octopus L80**



Ladder Guided Service Lift	
Main door type	Full sliding door
Service lift speed	18 m/min ± 10 % (50Hz)
	21 m/min ± 10 % (60Hz)
Rated load	240 kg
Weight of lift (max.)	192 kg
Max. Nº persons	2 Persons
Max. noise level	80 dB(A)
Power supply type	400 V (50/60 Hz) 3 Phase + N + PE
	690 V (50/60 Hz) 3 Phase + PE





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