



ALIMAK MARINE ELEVATORS

PRODUCT GUIDE **ALIMAK ME**

Access anytime, anywhere

ALIMAK

Machine room-less traction passenger and freight elevators for marine applications

Alimak is proud to launch a new innovative Marine Elevator, designed for marine applications. The all new ALIMAK ME is a passenger and freight elevator suitable for an array of marine vessels, built on Alimak's tried and trusted traction technology. The ALIMAK ME is available in two car sizes, offers capacities of up to 1,600 kg and has superior ride comfort, all without the need for a machine room.

ELEVATOR CAR AND FRAME

Reinforced car frame with progressive safety gear accordance to regulations. Steel frame is supplied primed with possibility of hot dip galvanized version for high humidity areas. Elevator car with walls and roof of stainless steel panels AISI 316 Grit 180/220. Side walls can be equipped with two bars of aluminum or wood. Handrail $\varnothing 32$ mm at one sidewall and mirror. Floor of anti-slip (Polysafe Standard PUR) or checker plate or plain sheet for application of other floorings. Various finish variants are available on request. The elevator car has always escape hatch in the ceiling and for crew only emergency ladder inside car. Emergency ladder can be hidden with door panel or permanently fixed. Opening of the escape hatch will automatically stop the elevator. The elevator car is equipped with roof lighting LED panels with emergency diodes. The elevator car is closed by a 2- or 4-panel horizontal sliding door. Light curtains with sender and receiver are installed in car entrance to prevent the door to close while personnel are entering the cabin. The car will be provided with inspection panel on car-roof for maintenance and service purpose.

MACHINE

Quiet-running, high efficiency permanent magnet gearless machine designed for elevators. Brake magnet with manual operational or battery release. Load independent stop tolerance: ± 5 mm. Ingress Protection class: IP41. Voltage 400/440V suitable for IT power system.

DOORS

The elevator is equipped with 2- or 4-panel horizontal central opening sliding door. Landing doors are specially reinforced for marine application and for installation in welded shaft. Panels and frames are powder coated also optional in stainless steel AISI 304/316 cladding. Ingress Protection is IP20, available IP44 or IP67 on request. The doors are electrical and mechanical locked and cannot be opened unless the car is situated at the landing. Opening of shaft door from outside is possible by emergency key or from inside by special emergency rope opening. The door operator has safety switch according to regulations. Doors can be fitted with fire insulation A60 class.

ELEVATOR SHAFT ARRANGEMENT

The elevator shaft size is fully designed to comply with EN81-20/50 and ISO8383 regulations. Interfaces for guide rail brackets are prepared either for bolting or welding. The elevator shaft arrangement is including all necessary components such as emergency escape ladder and permanent lighting positioning. The elevator shaft can be fitted with fire insulation. Machine room is not required as the machine is in the headroom. Machine fundament does not require any additional interfaces from shaft walls as is fully supported only by elevator guiderails.



CONTROL SYSTEM

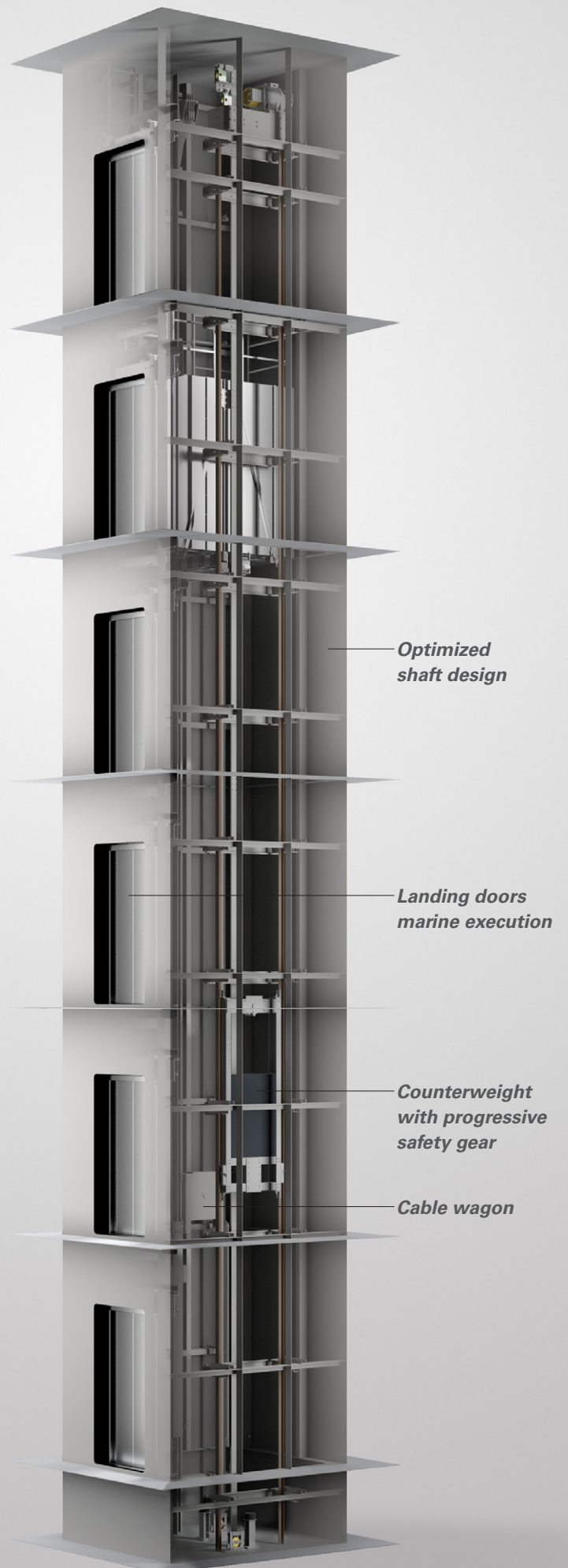
The control panel is installed in corridor beside top landing doors. The control cabinet consist of a CPU with software for elevator application and compliance with EN81-20/50. The VSD and brake resistor are installed in the headroom nearby machine. VSD drive is high quality with exceptional motor handling, motor can be driven on low current in emergency. VSD drive has easy set up for parameters (user friendly). Optional, emergency operation in case of main power failure can be done with 230V UPS power. When other functionality is required, the control system can be tailored made. Fire and gas signal and common alarm are standard. Vessel monitoring accelerations are supplied from vessel control system or can be built in. As standard one trailing cable with spare cores and CAT available for customer utilization e.g. camera, display, TV or others application. Our standard cables are certified by DNV GL or other third party. All cables are Halogen free, low smoke properties and flame-retardant IEC 60092.

EXPERIENCED SUPPLIER

Since Alimak was founded more than 70 years ago, its ambition has been to be the technology leader in the segments served. Alimak has supplied elevators for the marine and offshore market since 1974 and continues to invest in new technologies and concepts to improve the productivity and sustainability of the industry. We supply elevators for derricks, hull columns, living quarters and other marine structures. Alimak has an installed base of more than 23,000 elevators for both offshore and onshore applications.

CODES AND REGULATIONS

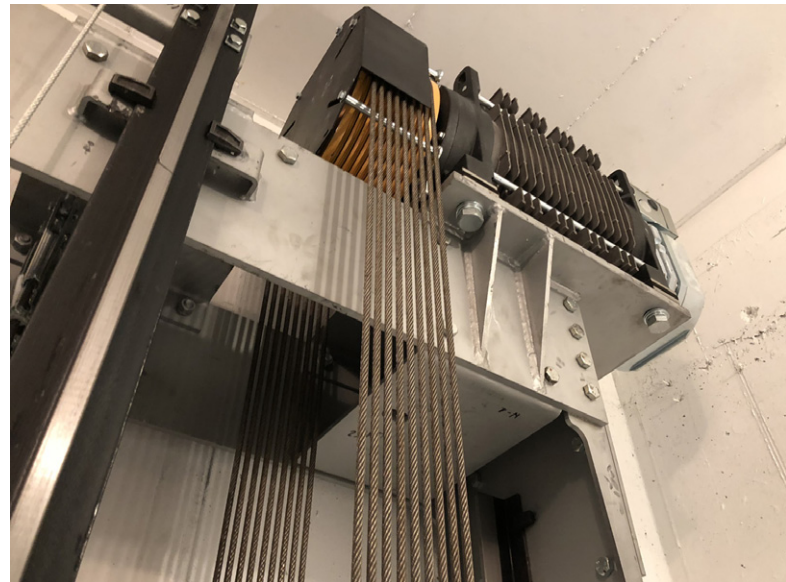
Alimak ME elevators comply with EN81-20/50, ISO 8383, DNV Rules for elevators, 2014/33/EU. The elevators are standardised and designed according to client's optimal shaft utilization, fit by purpose.



Technical specifications

MAIN BENEFITS

- Standardized design for marine applications
- Based on MRL design (Machine Room Less)
- Mechanical and electrical interfaces clearly specified
- Less interfaces and simpler installation
- Energy efficient machinery
- Eco-efficiency
- Superior ride comfort
- Fully collective elevator control system
- Durable materials: stainless steel car wall panels and roof with car support frame of carbon steel
- Wide range of optional equipment and functions delivering you the right equipment for each individual task
- Available 3D model for implementation during early phase of the vessel design



	ALIMAK ME 1000	ALIMAK ME 1600
Application	Passenger and goods	Passenger and goods
Location	Marine	Marine
Speed	1.0 m/s	1.0 m/s
Elevator suspension	2:1	2:1
Landings	As per client specification	As per client specification
Car doors	1 off	1 off
Car size (WxDxH)	1,100 x 2,100 x 2,100 mm	1,400 x 2,500 x 2,100 mm
Rated load	1,000 kg / 13 passengers	1,600 kg / 21 passengers
Shaft size (WxD)	Min. 2,100 x 2,500 mm	Min. 2,325 x 2,950 mm
Pit depth	Min. 1,000 mm	Min. 1,075 mm
Clear headroom	Min. 3,400 mm	Min. 3,600 mm
Travel height	As per client specification	As per client specification
Machine position	MRL (in shaft-top)	MRL (in shaft-top)
Fire class	None (A60 on request)	None (A60 on request)

For other demands or specifications, please consult your Alimak representative.