



INDUSTRIAL ELEVATORS

PRODUCT GUIDE

ALIMAK SE

Access anytime, anywhere

ALIMAK

Passenger and freight elevators

Alimak SE passenger and freight elevators are designed not only to move people, but also to be able to handle materials weighing up to 2,000 kilograms (4,400 lbs) when required. All Alimak elevators are built to last in the most extreme environments.

INDUSTRY MOVER AND SHAKER

Alimak has been the industry mover and shaker in supplying elevators based on the rack and pinion drive technology for more than 50 years. An installed base of over 23,000 Alimak rack and pinion solutions across a broad spectrum of industries around the world, has given us a unique and extensive engineering knowledge platform based on each individual installation. Elevators from Alimak demonstrate their ability to withstand the toughest challenges, providing reliable access, anytime and anywhere needed, from silos, chimneys, and boiler houses, to warehouses, container cranes, underground shafts, hull columns, and derrick towers.

MODULAR SYSTEM

The enhanced efficiency delivered by the Alimak SE line stems in part from the unique modular design of the cars that provides a remarkable 30 different car sizes within the standard range. All elevators are based on a variety of wall panels made of the patented Alimak self-locking, aluminium profiles. These wall panels meet different elevator needs, and create adaptable floor and roof configurations.

ELEVATOR CAR

Made of extruded anodized saltwater-proof aluminium and hot dipped galvanized steel the Alimak SE elevator car maximizes operator comfort without compromising operating reliability. It also gives the elevator the ability to handle your toughest working

environments. The rigid and strong car door, which is equipped with windows, can be located on any three sides of the car away from the mast and is mechanically and electrically interlocked to meet all applicable code requirements. Stainless steel car walls and doors are also available for extremely aggressive environments. The car climbs on a galvanized mast tower. The mast is delivered in 1.5 m (4'-11 3/8") sections equipped with a bolt-on rack. The mast tower gives a slim installation profile. Ties are used for attachment of the mast tower to the structure. A one, two, three or four-sided enclosure with different door types can be supplied for each of the landings. It is available in either aluminium or stainless steel.

COMPACT, POWERFUL DRIVE UNIT

The compact and powerful drive unit is located on top of the car itself, which means more useable space as there is no need for a separate machine room. The drive is comprised of one or two electric drive motors. There is a choice of direct-on-line control (DOL) or frequency controlled (FC) electric motors. The FC drive not only ensures smooth acceleration and deceleration, but also reduces wear and tear on elevator components such as brakes. Stopping accuracy on the latest generation Alimak SE with FC drive is a remarkable +/- 3 mm (0.1"), a levelling accuracy ideal when loading heavy goods. The Alimak SE elevator is equipped with a centrifugal brake that allows passengers to be lowered to the landing below in the event of a power failure.



EASY TO OPERATE

The Alimak SE elevator is push button operated from car and landings. Depending on the frequency of use, the application and the number of landings, you can choose a modern collective control system operating in the same way as a conventional elevator or a simpler single or semi-automatic control system. The collective control system supports up to 64 landings and boasts group control for up to 6 elevators. All controls are logically positioned in the car and the car-wall integrated electrical unit is easily accessible for service and maintenance.

REMOTE MONITORING

The Alimak SE is fitted with the built-in A³ remote monitoring system as standard. A³ gives you the ability to fully monitor the elevator via a mobile network, the internet or your local network with a Modbus TCP client and trace any faults instantly. The system allows for an improved response time for corrective diagnostics to avoid elevator downtime. A³ is free during warranty period.

SAFETY

The Alimak SE elevator incorporates all the safety features that have made Alimak elevators a benchmark for the elevator industry worldwide. The unique progressive Alimak safety device comes into operation should the elevator exceed the rated speed, bringing the car to a smooth stop. The elevator is also fitted with an overload sensing device.

CODES AND REGULATIONS

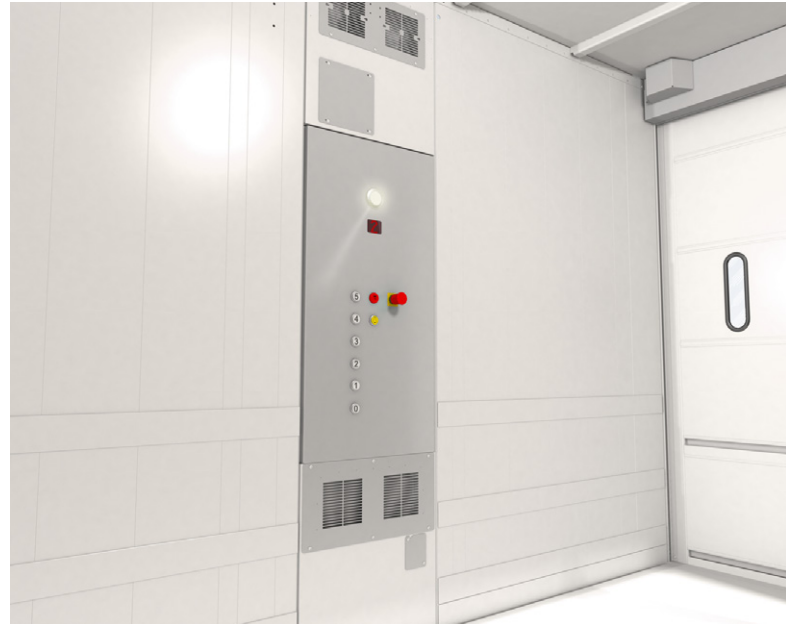
ALIMAK SE elevators comply with the European Lift Directive, EN 81-20/-50, prEN81-7, European Machinery Directive 2006/42/EC, EN 81-43, the American regulations ASME A.17.1-2010 Part 4.1 and 5.7 (up to 1,000 lbs), the Australian regulations AS 1735.9, AS 1170 and the technical regulation of the Eurasian Economic Union TR CU 010/2011. Other standards on request.



Technical specifications

MAIN BENEFITS

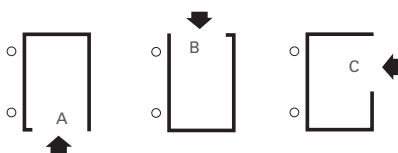
- Designed for harsh environments
- No enclosed hoistway or shaft needed
- Drive machinery located on the car means no machine room is required
- Modular design delivering a wide range of car sizes and capacities
- Fully collective elevator control system
- Durable materials: extruded aluminium car wall panels with car support frame and mast sections of hot dip galvanized steel. All stainless steel electrical cabinets and landing control boxes. Optional stainless steel cars
- Wide range of optional equipment and functions delivering you the right equipment for each individual task
- The A³ Remote Monitoring System gives the ability to monitor elevator operations 24/7 and proactively trace faults should they arise to avoid downtime.



Max. payload capacity	300–2,000 kg (660–4,400 lbs)
Travelling speed	0.4–1.0 m/s (80–200 ft/min)
Max. lifting height	250* m (820* ft)
Motor control	Frequency control (FC) or Direct-on-line (DOL)
No. of motors	1 or 2
Elevator car sizes	30 car sizes available min. 0.78 m x 1.04 m (2'-6 3/4" x 3'-5") max. 1.56 m x 2.60 m (5'-1 3/8" x 8'-6 1/3")
Power supply range	380–500 V, 50 or 60 Hz, 3 phase
Type of mast	Type "A", "A-Mini", "FE" or "A-50", tubular steel with integrated rack
Length mast section	1.508 m (4'-11 3/8")

* Increased lifting height on request.

Car door configurations (A, B and C, or any other combination)



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

Type of mast

