



INDUSTRIAL ELEVATORS

PRODUCT GUIDE

ALIMAK SL-H

Access anytime, anywhere

ALIMAK



- Built to perform in harsh industrial environments
- Enhances operational efficiency and reduces maintenance costs

ALIMAK SL-H

Passenger and freight elevators

The Alimak SL-H range of rack and pinion elevators are designed for installation in an array of industrial settings. With Alimak SL-H elevators, customers can access, monitor and service key processes in their plants, increasing operational efficiency and uptime for their facilities.

Alimak SL-H industrial elevators are suitable for tough operating environments including power stations, cement plants, ports, chemical plants, steelworks, mines, manufacturing and storage facilities.

Delivering a versatile vertical access solution ideal for the monitoring and maintenance of essential facilities, the Alimak SL-H range offers payload capacities of up to 3,000 kg.

Part of the Alimak SL-H range, the SL-H 2000 elevator car has a width of 1.4 m and offers a choice of two car lengths; 2.4 m and 3.0 m. It has a payload capacity of 2,000 kg. Alimak SL-H 3000 is the larger model in the range offering 3,000 kg payload capacity with a car size of 1.5 m x 3.2 m and 2.3 m in height.

ROBUST DESIGN

Made of aluminium and hot dipped galvanized steel, the robust design minimises downtime and operational costs whilst withstanding tough environmental challenges when transporting both people and freight.

A smooth running vertical sliding door can be located on one, two or three* sides of the elevator car. The door is made of aluminium for easy opening.

The drive unit provides smooth acceleration and deceleration, offering accurate levelling at landings irrespective of load, making loading and unloading operations easier and reducing power requirements and brake wear.

EASY TO OPERATE

Alimak SL-H elevators are push button operated from the car and landings. A modern collective control system, which operates like a conventional elevator, can be adjusted to your preferences based upon frequency of use, application and number of landings. All controls are logically positioned in the car and the car wall integrated electrical unit is easily accessible for servicing and maintenance.



* SL-H 3000 only.

Rack and pinion delivers unique advantages

Over the past six decades, the rack and pinion concept originally pioneered by Alimak has been evolved and refined, bringing its major benefits to new market applications in the industrial elevator sector.

SHAFT-LESS, MACHINE ROOM-LESS TECHNOLOGY

Alimak SL-H industrial elevators are built on the simple, but ingenious rack and pinion principle. The elevator has its drive motors fitted on top of the car along with the brake and gearbox. The motor drives a pinion that moves along the rack, which is bolted to the elevator mast tower. This technology enables the elevator car to climb up and down the mast at a controlled speed. Without the need for a shaft or machine room, the design of the Alimak SL-H elevator provides efficient and practical vertical access.

INDUSTRY MOVER AND SHAKER

Alimak has been an industry leader in supplying elevators based on rack and pinion drive technology for more than 60 years. An installed base of over 23,000 elevator solutions for a broad spectrum of industries around the world, has given us a unique and extensive engineering knowledge gained from each individual installation. Elevators from Alimak regularly demonstrate the ability to withstand the toughest challenges, provide reliable access, anytime and anywhere needed, from preheaters, silos and chimneys, to warehouses, container cranes, underground shafts and marine vessels.

SAFETY AND RELIABILITY

The Alimak SL-H range incorporates all the safety features that have made Alimak elevators a benchmark for the elevator industry worldwide. The mechanical and electrical interlocking door system and Alimak safety devices guarantee the highest safety standards. If the elevator exceeds the rated speed, the unique progressive Alimak safety device brings the car to a smooth stop.



Mast tower

No shaft required.
Hot dip galvanized high grade steel

Mast ties

For attachment of mast tower to structure

Rack

Black painted steel.
M5 design provides high ride quality

Drive machinery

No separate machine room is required.
Robust, high efficiency drive system located on top of car.

Electrical components

Electrical cabinets of stainless steel, IP65

Control system

Fully collective control system

Car walls

Wall panels, extruded aluminium

Car frame

Heavy duty design.
Hot dip galvanized steel

Dual car option

Dual car option doubles the payload capacity

Floor

Galvanized diamond plate

Doors

Heavy-duty design, extruded aluminium frame

Landing enclosure

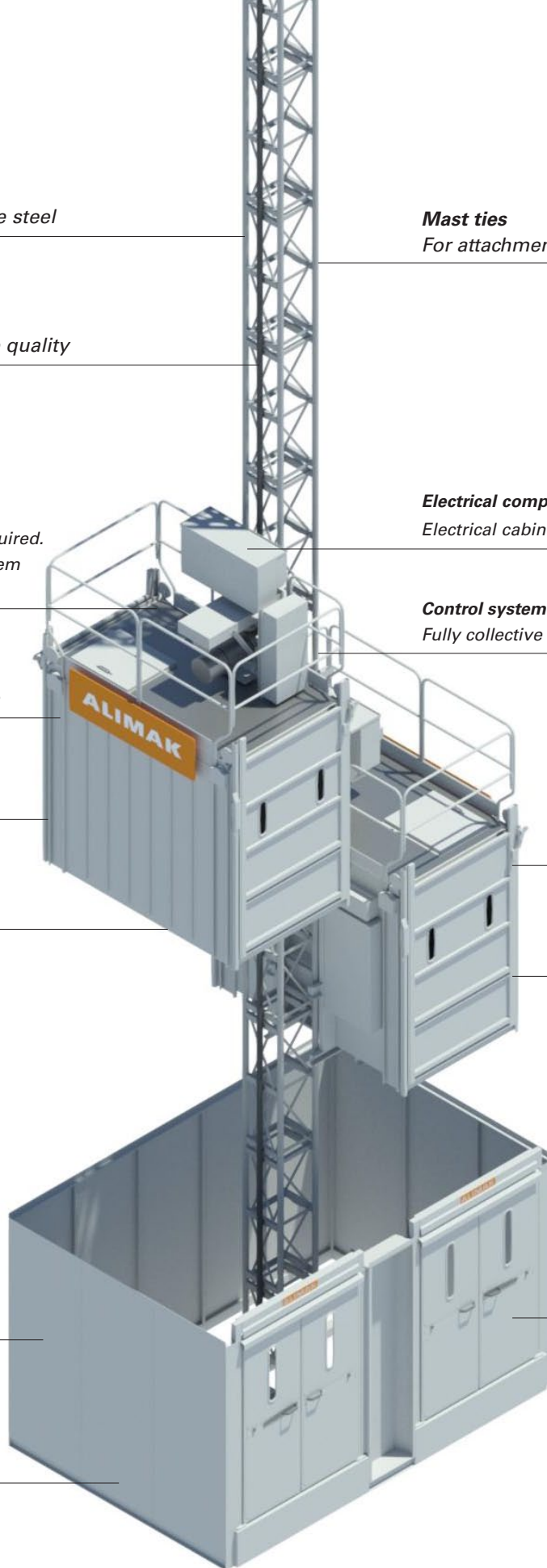
Hot dip galvanized steel

Landing doors

Double leaf swing door type

Pit

Raised pit enclosure



Why choose an Alimak SL-H industrial elevator?

Alimak is your trusted partner, committed to providing the safest and most reliable products and services, delivered by professionals who are close to your business, understand your needs and always deliver in a consistent and professional manner.



Machine room and shaft not required

No need for a machine room or a supporting elevator shaft, reducing building requirements and ongoing structural maintenance.



Low total cost of ownership

An Alimak elevator maximises operational efficiency, reduce plant maintenance costs and increases health and safety performance.



Durable and robust industrial design

Like all Alimak products, the robust and durable design of the Alimak SL-H is engineered for tough working conditions.



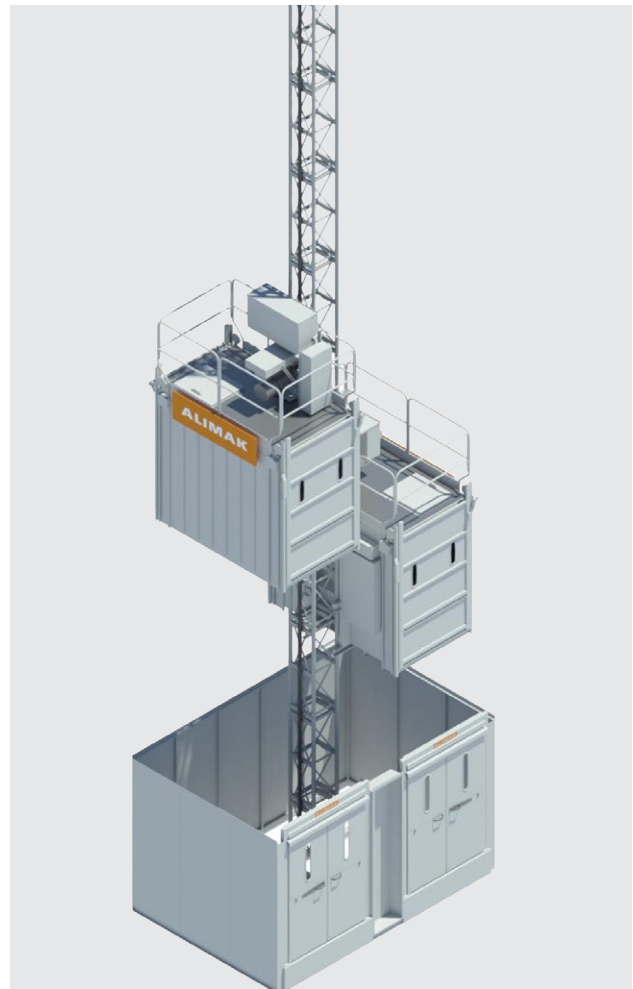
Use during construction

Alimak SL-H is suitable for beneficial use during the construction phase of projects. Rack and pinion elevators can easily grow with the structure.



Easy to retrofit

Thanks to the rack and pinion technology, Alimak SL-H elevators are easy to retrofit to existing building and structures. Since no shaft or machinery room is needed, installing an Alimak SL-H at any structure of a plant is an economical choice.



DOUBLE CAPACITY

Dual solution available with two independent elevator cars operating on a single guide mast column, reducing material costs, installation work and on-site space, while offering improved traffic movement and further increasing productivity.

Service solutions

Alimak offers a comprehensive range of service solutions specifically tailored to meet the needs of our customers operating in demanding industrial environments.

FULL SERVICE SUPPORT SOLUTION

Through our service centres in over 100 countries, Alimak offers a comprehensive range of services designed to care for your products and the people who operate them over the total lifecycle of the equipment. Alimak is committed to Safety. To ensure the safety and compliance of your products, Alimak offers a wide

range of inspections and certifications to support our customers in demonstrating that their equipment is compliant to the regulatory framework in which they operate, and that their people are competent in its use. To learn more about the inspection and certification programmes currently offered in your region, please contact Alimak.



SERVICE SOLUTIONS

Comprehensive range of service contracts, maintenance programmes and repair solutions to ensure maximum uptime



TRAINING

Training to support the safe operation, maintenance and installation of equipment



GENUINE SPARE PARTS

Genuine spare parts prolong machine life and maximise performance



INSPECTIONS, SAFETY AND COMPLIANCE

Routine inspection programmes to ensure equipment is kept safe and compliant



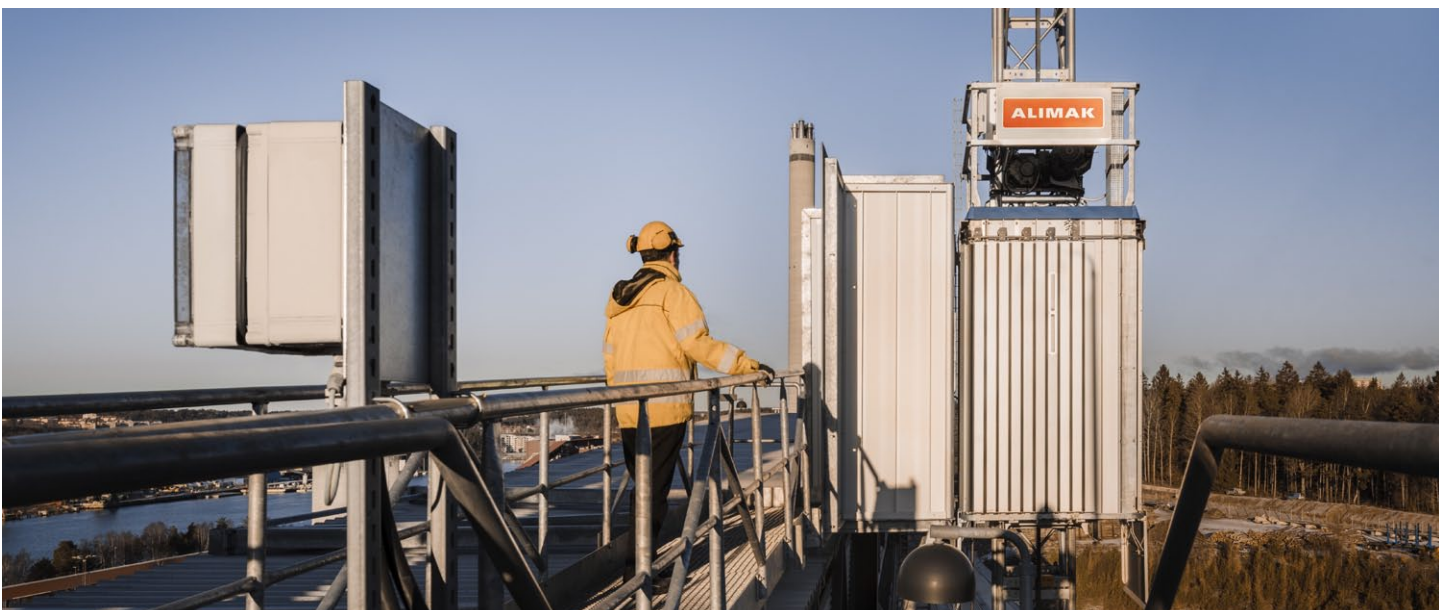
ASSET MANAGEMENT

A range of support solutions to manage the total life-cycle of equipment



REFURBISHMENT SOLUTIONS

Bring new life to an aging elevator with a cost effective refurbishment or upgrade



Technical specifications

MAIN CHARACTERISTICS

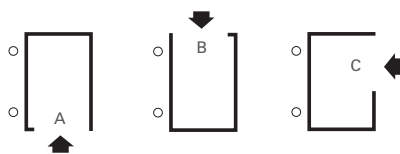
- Designed for harsh environments
- No enclosed hoistway or shaft needed
- Drive machinery located on the car means no machine room is required
- Dual car option to double the capacity
- Fully collective elevator control system
- Doors on one, two or three* sides of the car possible
- Car and landing doors with mechanical and electrical interlocking
- Safety features including safety device, door interlockings, emergency lowering system, overload protection
- Durable materials: aluminium car walls and doors and with car support frame and mast sections of hot dip galvanized steel. All stainless steel electrical cabinets
- Building Information Modelling (BIM) object files allow you to compare and select the most suitable lifting option for your needs



	SL-H 3000	SL-H 2000	SL-H 1000
Payload capacity, max.	3,000 kg (23 passengers)	2,000 kg (16/20 passengers)	1,000 kg (13 passengers)
Travelling speed	Up to 0.9 m/s	Up to 0.9 m/s	0.5 m/s
Lifting height, max. **	200 m	150 m	150 m
Motor control	Frequency control (FC)	Frequency control (FC)	Frequency control (FC)
No. of motors	3 x 9.4 kW or 3 x 11 kW	2 x 9.4 kW or 2 x 11 kW	1 x 9.4 kW or 1 x 11 kW
Elevator car size, internal (W x L x H)	1.5 m x 3.2 m x 2.3 m	1.4 m x 2.4–3.0 m x 2.13 m	1.4 m x 2.4 m x 2.13 m
Door opening (W x H)	1.5 m x 2.2 m	1.4 m x 2.0 m	1.4 m x 2.0 m
Power supply range	380–480 V, 50/60 Hz, 3 phase	380–480 V, 50/60 Hz, 3 phase	380–480 V, 50/60 Hz, 3 phase
Type of mast	650, tubular steel	450, tubular steel	450, tubular steel
Length mast section	1.508 m	1.508 m	1.508 m

** Increased lifting height on request.

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



* SL-H 3000 only.

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

Type of mast

