



## CONSTRUCTION HOIST

PRODUCT GUIDE

# ALIMAK SC 45/30

Access anytime, anywhere

**ALIMAK**

# ALIMAK SC 45/30

## An economic, high-efficiency construction hoist

The Alimak SC 45/30 is designed for passenger and materials transport. The Alimak SC 45/30 offers, efficiency, safety, reduced energy consumption and low operating costs, making it the ideal hoist solution for construction and rental companies.

A modern microprocessor hoist control system with stop-next-landing control allows for simple operation and ease of use. The Alimak SC 45/30 is capable of sharing a mast with the Alimak medium range of transport platforms, materials hoists and mast climbing work platforms, improving utilisation of machine accessories and increasing transport capacity in a cost-effective way.

### MAIN CHARACTERISTICS

#### Safety

Fitted with a safety device, overload sensor, and mechanical interlocking door system to guarantee the highest safety standards.

#### Reliability

High strength steel extends equipment life and reduces dead weight; With a robust design, based on proven Alimak technology, the Alimak SC 45/30 is a reliable hoist solution that delivers when you need it to.

#### Efficiency

A high-efficiency helical gearbox affords (30%) lower power consumption and operating costs, compared to competitor hoist products. Built-in electrical cabinet maximises internal hoist dimensions for increased lifting capacity.

#### Ergonomic Design

Superior operator comfort with a robust design for equipment durability; a choice of door and ramp options ensure maximum usability; easy to use stop-next-landing control system allows for simple operation; LED-light in cage for maximum usability and operator comfort; optional installation crane and single or dual cage available.



**Economical**

Low cost of ownership for construction and rental companies through durability, accessibility and easy installation and dismantling.

**Smooth Operation**

Frequency control provides smooth starting and stopping with a low starting current and less wear and tear.

**Robust Design**

A robust car design with a choice of door and ramp options ensure maximum usability and extended equipment life.

**Proven Technology**

An easy-to-use control system, based on proven Alimak technology, allows for simple operation and ease of use.





## Quality, energy-efficiency and low-cost ownership

### **RACK AND PINION**

Alimak is the global leader in rack and pinion drive technology, with more than 50 years' experience in the innovation of high-quality rack and pinion products designed to meet client requirements. The Alimak SC 45/30 is engineered and manufactured to Alimak's exacting standards, delivering reliability, energy efficiency and durability in even the toughest working conditions.

### **FLEXIBILITY OF DESIGN**

The Alimak SC 45/30 offers flexibility of design, with three available door options: a vertical door, bi-folding door or vertical door with load ramp. The load ramp allows for quick and easy loading of materials and requires no special landing bridges.

### **ENERGY-EFFICIENT DRIVE UNIT**

A high-efficiency helical gearbox provides lower power consumption and reduced operational costs.

### **VARIABLE FREQUENCY CONTROL**

Variable Frequency Control (FC) provides smooth starting and stopping, with a low starting current, less wear and tear and improved landing accuracy. A range of voltage options are available to suit any client power requirement.

### **EXTENDED EQUIPMENT LIFE**

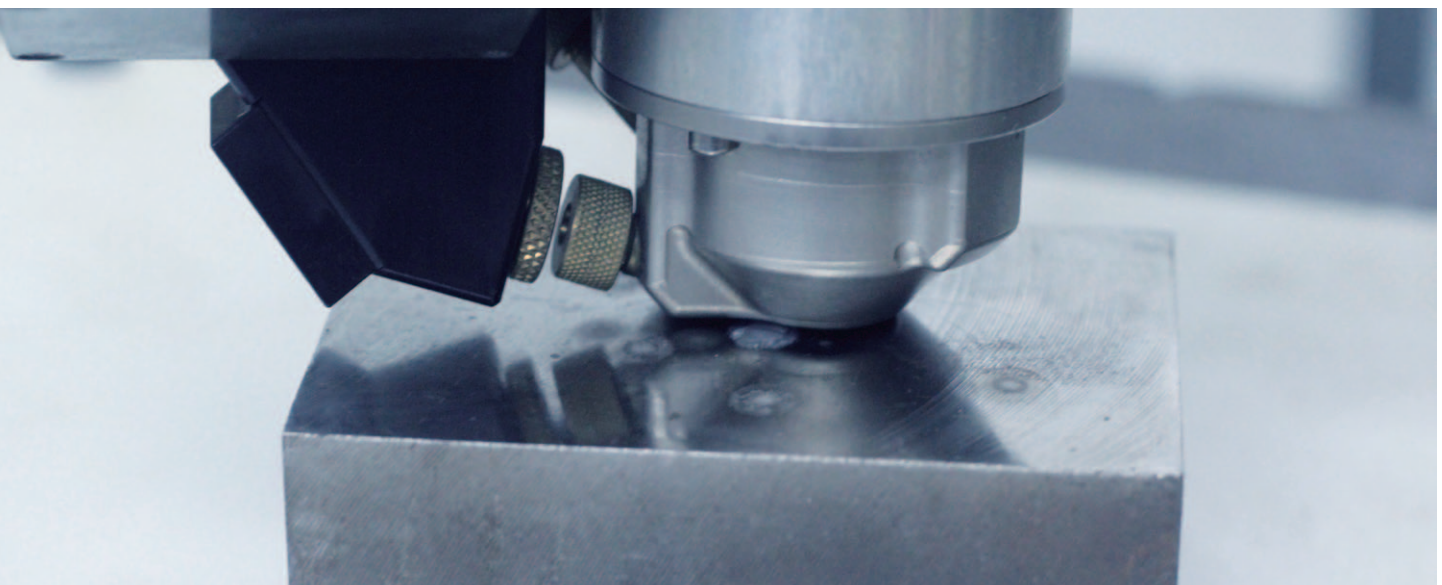
The Alimak SC 45/30 uses lighter and stronger galvanised steel mast sections and tie-ins. A centrally located rack balances the force between mast pipes and guide rollers, ensuring even equipment wear and extending operational life.

### **REDUCED POWER CONSUMPTION**

New design and materials provide stronger, lighter and more compact cage design for reduced power consumption. A fixed cage frame and welded cage walls lengthen machine service life, while reducing noise and vibrations.

### **EASY INSTALLATION AND DISMANTLE**

No special tools are required, and four lifting eyes are located on the car roof and two on the drive unit for easy installation and dismantle. This ensures a cost-effective and user-friendly hoist solution.









## Improved performance for passenger and material lifting

The SC 45/30 is the latest Alimak construction hoist to be upgraded for goods and passenger vertical transportation. Upgrades to the doors and enhanced drive unit technology improves hoist operation, ensuring its safety and reliability with the added benefit of lowering your total cost of ownership.

### HIGHER QUALITY STANDARD WITH ALIMAK TECHNOLOGY

1. Optional European components available, safety device, gearbox and electrical components for main-panel
2. Upgraded cable routing and sign placement inside the hoist for easier visibility
3. New roller assembly design, made from durable cast iron material
4. An additional latch ensures stability of the hoist cars roof hatch

### UPGRADED DOOR DESIGN WITH IMPROVED RELIABILITY AND SUSTAINABILITY

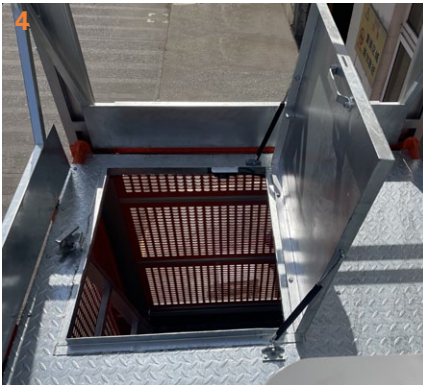
5. Lighter door made from Aluminum, for increased sustainability
6. Lighter and shorter manual bridge on vertical sliding door for efficient operation
7. Bi-parting door lock safety cover to prevent accidental touch
8. Updated mounting design of the door limit switch to protect it from damage, increasing switch life span

### UPGRADED DRIVE UNIT DESIGN WITH LOWER TOTAL COST OF OWNERSHIP AND LONGER LIFE TIME

9. New and improved drive unit with anticorrosion, rust proof galvanized steel frame. The drive unit occupies less space on the roof for easier maintenance
10. New stainless steel design of FC resistor for increased resistance, with better heat dissipation and reliable performance
11. Easy assembly and maintenance of aviation plug used for cable inlet of electrical panel on drive unit
12. New motor attached SNL encoder, that does not require a pinion, improves landing accuracy

### CONTROL PANEL WITH 7" TOUCHSCREEN

13. New control panel with integrated touchscreen provides a better and more visual control system. The control panel of stainless steel design is equipped with an isolating switch, which can quickly cut off the power supply during maintenance. Key pad is available as an option to simplify hoist operation.
14. New user-friendly 7" LCD touchscreen with protective glass and ingress protection IP54, delivers real-time hoist status information. It facilitates easier, safer operation and simplified troubleshooting.



## Technical specifications

Alimak SC 45/30	DOL – 36 m/min	FC – 40 m/min	FC – 60 m/min
Payload capacity, max.	2,000 kg (4,400 lbs)	2,000 kg (4,400 lbs)	2,000 kg (4,400 lbs)
Traveling speed	36 m/min (118 fpm)	0–40 m/min (0–131 fpm)	0–60 m/min (0–197 fpm)
Lifting height, max. *	150 m (492 ft)	150 m (492 ft)	200 m (656 ft)
Motor control	DOL	FC	FC
No. of motors	2 x 8.5 kW	2 x 9.1 kW	2 x 9.4 kW
Control system	Hold to run	Hold to run or SNL	Hold to run or SNL
Car size (W x L x H)	1.4 m x 3.0 m x 2.13 m (4'-7 1/8" x 9'-10 1/8" x 6'-11 7/8")	1.4 m x 3.0 m x 2.13 m (4'-7 1/8" x 9'-10 1/8" x 6'-11 7/8")	1.4 m x 3.0 m x 2.13 m (4'-7 1/8" x 9'-10 1/8" x 6'-11 7/8")
Power supply range	380–500 V, 50/60 Hz, 3 phase	380–500 V, 50/60 Hz, 3 phase	380–500 V, 50/60 Hz, 3 phase
Type of mast	450 – tubular steel	450 – tubular steel	450 – tubular steel
Length mast section	1.508 m (4'-11 3/8")	1.508 m (4'-11 3/8")	1.508 m (4'-11 3/8")
Rack module	5	5	5
Safety device type	SAJ40-0.9 / Alimak GF	SAJ40-0.9 / Alimak GF	SAJ40-1.4 / Alimak GF
Gearbox type	Standard / Alimak	Standard / Alimak	Standard / Alimak

\*Increased lifting height on request.