

SERVICE INSTRUCTION MS 2-2011 E

Sid/Page 1(4)

Utfärdare Issued by Aussteller Bertil Nyström	Datum Date Datum 2011-02-17	Produkt Product Produkt Deliveries of SE lifts
Från maskin nr. From machine No. - Von Maschine Nr.	Till To - Zu	Berör/Concerns/Betrifft Storage and handling of new deliveries

Regarding damages caused by moisture:

In a few cases deliveries of SE lifts have got damages in the M- and V-electric cabinets during storage and transport.

This has especially occurred at container deliveries to countries with tropical climate with high air humidity and great variations in temperature combined with bad ventilation. If the delivery has to be stored for a long time, it is essential that a good storage environment is ensured.

If these conditions are not met, moisture may cause damage to the electric cabinets due to condensation.

See attached instruction describing **Storage and handling**. This document is also attached to all quotation and order documents. Furthermore, information/warning signs are attached to packages with important lift components.

Please forward this instruction to all people concerned before inserting it in your Service Manual under index 2, Service Instructions!

Form approved by Patrik Sundqvist, After Sales Manager. Date: 2009-02-02



Storage and handling procedure for Alimak SE permanent lifts

Scope:

- Preservation at Alimak Hek AB factory
- Packing at Alimak Hek AB factory
- Alternative transport methods
- Lifting- and handling instructions during transportation
- Storage methods

Preservation at Alimak Hek AB factory:

- The equipment is protected with the surface treatment specified in the order.
- Pinions and shafts without specific surface treatment are protected with Tectyl 506.
- Corrosion inhibitors are applied in all electrical panels and junction boxes.
- All gear boxes are filled to nominal level with oil containing corrosion inhibitors. The gearboxes are sealed during transportation.
- Door bearings, guide roller shafts and interlocks are lubricated.

Packing at Alimak Hek AB factory:

Packing is made to withstand normal handling during transportation and storage and provides an acceptable protection in normal environments.

- The lift car is packed lying in a wooden crate, covered with plastic on the sides. The top is covered with a masonite board to provide extra protection. The bottom is uncovered.
- Electric panels, junction boxes and other small mechanical components are packed in wooden boxes.
- Landing doors are packed in wooden crates.
- Mast sections are bolted together in bundles.

Lifting and handling:

The largest and heaviest item is usually the lift car with machinery. Boxes, crates and pallets are designed for the actual use and allow handling by fork lift or crane and slings. Each package is marked with weight, dimensions and destination.

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**Transport methods:**

- Within Europe the lift car with accessories is usually transported in a covered truck.
- Outside Europe the lift car with accessories is usually loaded in containers and shipped by vessel. Large lifts that cannot be packed in containers are shipped as bulk goods in a crate. Such shipments must be made under deck.
- Bulk goods in boxes and on pallets must be shipped under deck.
- Large special lifts may require other transport solutions.

Temporary storage in container:

If the complete lift car with accessories is to be temporarily stored for **up to one (1) month** in the container after arriving to the destination harbour, it is very important that proper ventilation is arranged to avoid damaging condensation.

Storage under a roof at site for 2 months:

For storage up to 2 months it is acceptable with standard packing if following requirements are fulfilled:

Store all packages (crates, boxes) under a roof and on a dry surface protected from direct sunshine and rain.

Storage outdoors under a tarpaulin shall be avoided due to big temperature variations and increased risk of damaging condensation.

Mast sections in bundles can be stored outdoors.

Storage indoors for 2–6 months:

If the container with the lift car and accessories is delivered to the customer and needs to be stored **up to 6 months**, the lift car and the accessories shall be taken out from the container and stored indoors in the crates and the boxes.

Remove the plastic cover from the crate with the lift car. The warehouse must have good ventilation to avoid damaging condensation.

Mast sections in bundles can be stored outdoors.

Storage indoors for more than 6 months:

- The lift car with accessories shall be stored in the crates and the boxes indoors in a warehouse with good ventilation.

Remove the plastic cover from the crate with the lift car. The temperature should not vary more than 10 degrees C and the humidity should preferably be lower than 80%. Mast sections in bundles can be stored outdoors.

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- Check the surface treatment and make a touch up of any damage.
- Apply Tectyl 506 Universal on external springs, shafts, rollers and pinions. (Operation- and Maintenance Manual, page E20–21)
- Apply thin oil inside the Teleflex cable for manoeuvring of the centrifugal brake. Move the handle back and forth to get the best result of the lubrication. (Operation- and Maintenance Manual, page E20–21)
- Release the electrical motor brake with the handle and turn the motor shaft a number of turns with a socket wrench to ensure that the brake disc doesn't get stuck (Operation- and Maintenance Manual, page E5).
- Ensure that the VCI cushions in each electrical panel are replaced according to the Maintenance Manual. These cushions have a proper function up to two (2) years inside a closed electrical panel (Operation- and Maintenance Manual, page E 4, item 61).

IMPORTANT!

To avoid damages on mechanical components and corrosion/oxidation on electrical components due to condensation, we especially recommend that the following components:

- Lift car with machinery and electrical panels
- Electrical panels and junction boxes

are handled with care and preferably stored in a dry and temperature stable indoor environment that is well ventilated.

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