

RAVAS RPW HL-4



User Manual

User and maintenance manual


Index

page

The weighing system for the electric scissor lift trucks

1.	Taking the system into operation	2
2.	Warning instructions	5
3.	Operating instructions	6
4.	Battery	7
5.	Inspection and maintenance	8

RAVAS Europe BV

 Veilingweg 17
5301 KM Zaltbommel
Netherlands

 +31 418 515220
 www.ravas.com
 info@ravas.com

We would like to inform you about the fact that this RAVAS product is 100 % recyclable on the basis that the parts are processed and disposed off in the right manner.
More information can be found on our website www.ravas.com.



Rev.20250731
Printing/typographical errors and model changes reserved

THE WEIGHING SYSTEM FOR ELECTRIC SCISSOR LIFT TRUCKS

1. Taking the system into operation

Basic information

High Lifter prepared for scale, electric, painted, type RAV-HLE400

Lifting capacity: 1,000 kg

Net weight: 166 kg

Receiving the product

On receipt of the product, it is important to inspect it immediately for any signs of damage that may have occurred in transit. If any damage is discovered, contact the distributor or supplier and do not use the high lifter until the distributor or supplier has been notified about the damage and the extent of it.

Malfunction and damage

In the event of any malfunction or damage to the high lifter, contact the supplier or the distributor.

Note:

For safety reasons, all service and maintenance must be performed by a technician certified to do so.

Before using the product

The manual must be read and understood by the operator before he/she starts to use the high lifter, as it is crucial for the operator to be familiar with the high lifter's function, capacity and loading methods.



Warning!

If the precautions specified are not followed, there is a risk of accidents which may entail severe bodily injury and could possibly be fatal.

Transporting the high lifter

To lift the high lifter, attach authorized lifting equipment to the front crossbar or upper section. The lifting must be balanced by attaching straps to the fork tips. Note that, when lifting the high lifter, the plunger shaft can be extended to its maximum length. This will not damage the high lifter. For transporting the High Lifter on a lorry, it is recommended that the truck be attached to an EUR-pallet.

Safety equipment

Safety footwear must always be worn when using the high lifter. For service and repair, safety goggles/glasses must also be worn.

The operator must not wear loose objects such as necklaces, finger rings, a scarf, etc., as these can get caught in the High Lifter, thereby exposing the operator to danger.

The high lifter may be used for transporting pallets in an ordinary production environment.

Product description

The high lifter is described as a high lifter designed for transporting EUR-pallets.

The high lifter is designed for use in an ordinary production environment. The floor must be hard and level, e.g. concrete or asphalt.

The user must make sure that the floor can support the high lifter, including with its total maximum load.

Using the product

Permitted utilization: The high lifter may be used for transporting pallets in an ordinary production environment.

Unacceptable utilization: The high lifter may not be used as a scooter or for transporting people.

The high lifter is stable on a level surface, but may not be used on angled surfaces where there is a risk that it could slide or tip over. In addition, the high lifter may not be used in very cold areas or in areas exposed to high temperatures as this could cause the pump to malfunction, thus exposing the operator or other people to danger.

Handling and start-up

Before using the high lifter, it is important for the operator to read and understand the user instructions.



Operator's position

The operator must always position himself/herself in front of the towbar both during transport and when operating the pump.

2. Warning instructions

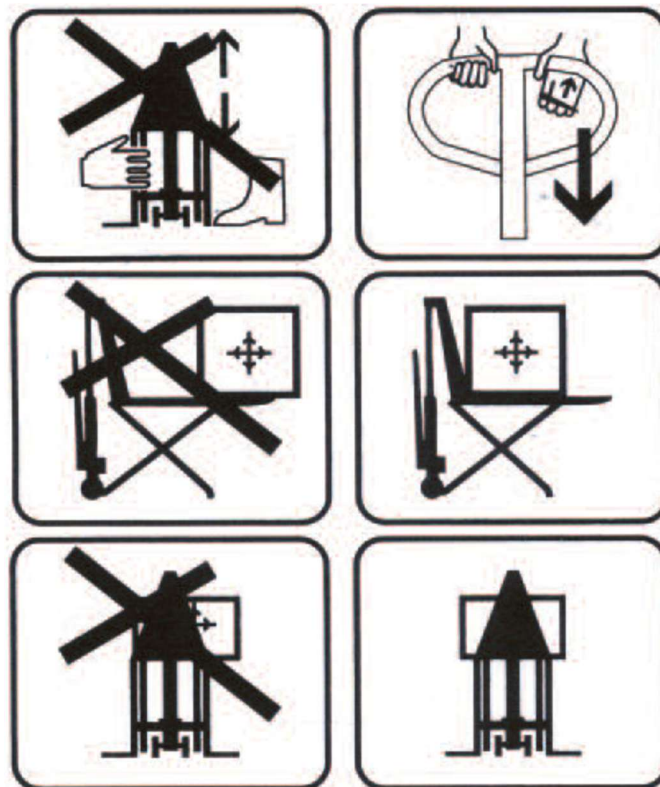


Warning during operation

Check to see whether anyone is in the area where you are planning to use the high lifter.

The load

- Know and be aware of the weight of the load and how it is positioned, to ensure that the maximum load limit is not exceeded.
- Make sure the load is stable and correctly positioned on the forks.
- The high lifter may only be operated with a load if the load is stable and secured, so that any loose objects cannot fall off.
- Do not convey tall loads on the high lifter.
- Be aware of the condition of the floor surface, i.e. whether it is even and smooth, whether there is an incline or a decline, as failing to observe this could cause a dangerous situation.
- Do not operate the high lifter on catwalks or other unstable surfaces.
- Avoid high speeds when turning.



3. Operating instructions

Operating instructions – manual lifting

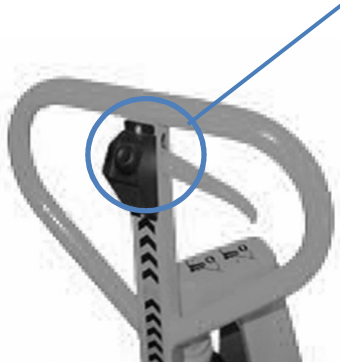
The pallet truck's tow bar is also used as a pumping/lifting bar. A built-in valve enables the tow bar to be placed in the desired position simply by slowly moving this.

If the operator wishes to lift the load, the tow bar must be moved quickly. If the operator wishes to lower the load, pull carefully on the tow bar's release lever, which activates this function. The adjustment of the lowering function is continuously variable. The upper section has been added to the drawing shown here, to indicate the above functions.

Operating instruction – electric lifting

Raising the forks:

To raise the forks, use the pushbutton located under the protective bar on top of the towbar. Press and hold the button until the desired lifting height is reached.



Lowering the forks:

To lower the forks, carefully move the release lever upwards, which will activate this function.

NOTE

The adjustment of this function is continuously variable for slow or rapid lowering.

4. Battery

The high lifter is equipped with a maintenance-free gel battery (VRLA). The battery is charged from the factory, but it is recommended that the battery be recharged before starting to use the truck.

Charging the battery

The high lifter is equipped with a built-in charger located on the left-hand side of the battery case. The charger is equipped with an alarm (red diode) which flashes when the battery needs to be recharged.

Connecting the charger

Attach the charging cable to the high lifter, and then plug in the cable to a 230V outlet. Start the charging process by turning on the switch, and the red diode will stop flashing.

- A yellow diode indicates that the charger is turned on.
- A green diode indicates that the battery is charged.



Warning

Prolonged use of the high lifter after the red diode has started flashing could permanently damage the battery.

When the truck is not in use

Always park the pallet truck with the forks in the lowest position. Always park the truck on an even, level surface to prevent it from unintentionally rolling into areas where it could endanger other people.

Emergency stop

The high lifter is equipped with an emergency stop. For safety reasons, the emergency stop should be tested about once a month, but otherwise comply with the company's safety policy.

People working near the machine should be aware of the machine's automatic operation. For using the automatic height adjustment, set the photocell at the desired working height.

5. Inspection and maintenance

Warning!



During service and maintenance, there is a risk of being crushed by movable parts of the high lifter. Be sure to correctly chock the high lifter in a stable location while servicing it, to prevent sudden movements of the high lifter.

Daily inspection

For safety reasons, the operator should inspect the high lifter on a daily basis for wear and damage. Special attention is drawn to the following components:

- Loose axles caused by damaged bolts, nuts or tubular pins
- Ruptures or cracks in the chassis
- Ruptures or cracks in the towbar
- Bent compression bars
- Wheels and auxiliary rollers must be intact and must be able to rotate freely
- Make sure no cloths, strip waste or other items are wound around the hub of the wheel or auxiliary rollers

Weekly inspection

For continuous operation, all movable parts should be inspected and lubricated with SAE 30 motor oil at least once a week. Ordinary bearing grease should be injected into the lubrication points equipped with a grease nipple.

Monthly inspection

Check the level of oil in the hydraulic system once a month. If the pump lacks oil, this is usually discovered from oil residue on the high lifter or when the high lifter cannot be pumped up to the top position.

Oil

The hydraulic system contains 1.5 liters of oil. Replenish with oil at the top of the pump housing. At temperatures between -35°C and +40°C, use oil certified to ISO 32 with a viscosity index of at least 150.

Inspection and maintenance plan

	Daily	Weekly	Monthly
Cleaning	•		
Inspect for damage and ruptures	•		
Lubrication		•	
Oil level, pump			•

Lubricating the towbar

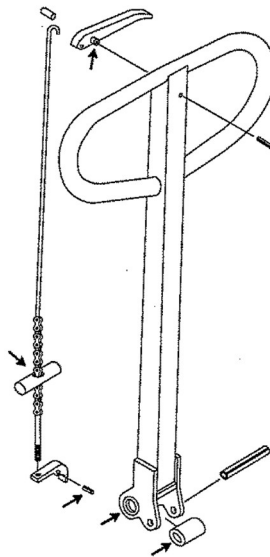
On the towbar, lubricate the release chain, the pin on the release lever and the pin at the lowering valve lever.

Lubricating the pump towbar.

Note:

To achieve correct lifting and lowering, the chain drive in the towbar must be preset so there is 0.4 mm (± 0.1 mm) between the release pin and the lowering-valve lever, regardless of where the towbar is positioned.

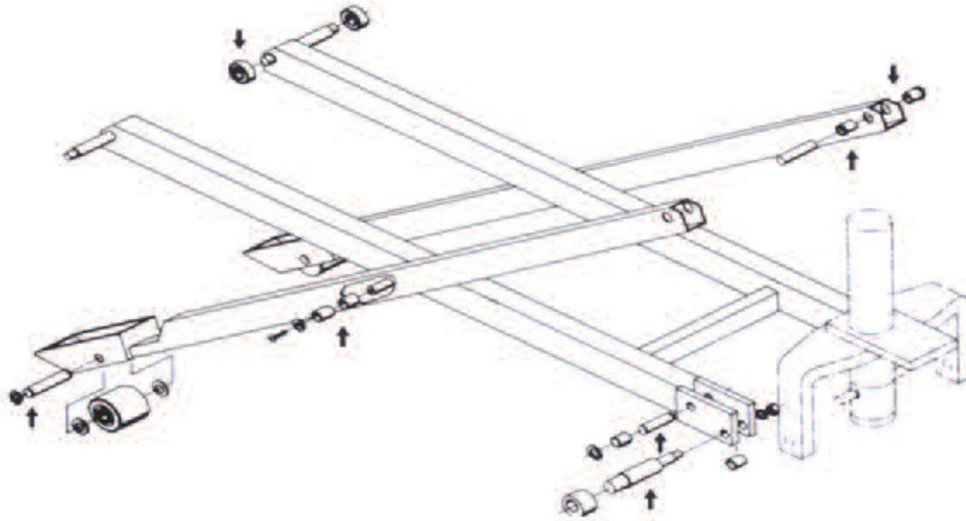
Oil lubrication →



Lubricating the scissor-lift assembly

Oil lubrication →

Grease lubrication →



Cleaning

The environment in which the high lifter is used determines the cleaning frequency. It is recommended to assess the need for cleaning based on the current rules in the company. The high lifter can be cleaned with warm water and automobile detergent or similar. After cleaning, wipe down the truck and lubricate the movable parts (see the section concerning maintenance and lubrication).

Disposing of the high lifter

The high lifter must be disposed in accordance with applicable rules at the time of disposal. Contact your local environmental station for further details, if necessary.

The high lifter contains the following materials

- Chassis: painted steel
- Tow bar: painted steel
- Scissors: painted steel
- Wheels: nylon, polyurethane or rubber
- Bearings: chrome steel
- Bushings: polyacetal, nylon, brass
- Pump housing: painted steel, hydraulic oil, polyacetal, nylon, copper, steel containing chromium, stainless steel, polyurethane and nitrile rubber.