ORIGINAL INSTRUCTIONS

StockPicker SP50

SAFELIFT

6010-MAN1-EN_3

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1. HEALTH & SAFETY REGULATIONS

The operator manual contains instructions for the daily work with the equipment to be handled and used by the operator. The operator manual must always be available to the operator(s) working with the equipment.

It is important that:

- The operator manual and other applicable documents are retained throughout the life span of the equipment.
- The operator manual and other applicable documents are included as part of the equipment.
- This operator manual is forwarded to other users of the equipment.
- The operator manual is updated with any additions or changes to the equipment.
- The operator manual describes the methods used in the use of the equipment.

1.1 Notification of safety precautions

- Before you start using the equipment and performing the maintenance or service on this equipment, please read the applicable parts of the instructions.
- Take into account all signs stating Danger, Prohibited, Requirement and Note that are mentioned in the manual.
- Serious injury to persons and machine damage may occur if this information is not observed.
- The machine equipment is intended to be used by an operator.
- Consider all electrical equipment as being energized.
- Consider all hoses and pipes as being pressurized.
- For service and maintenance of the equipment/machine, make sure that the 230 V power supply is cut and that the main fuse is in the OFF position.
- The service and maintenance may only be carried out by authorized service and maintenance personnel.
- Follow the instructions for maximum load. See the sticker on the equipment and technical data.

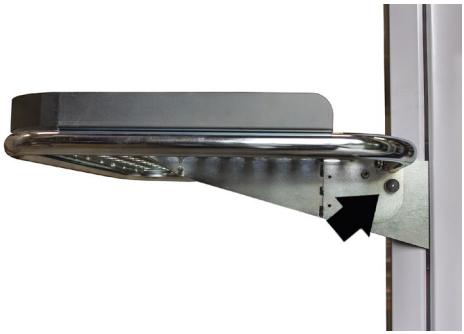
2. PRODUCT INFORMATION

2.1 SP50

The SP50 (SP = Stock Picker) is a lift equipped with a height-adjustable work table to handle goods and offer an ergonomic working situation.

2.2 Work table

The work table is operated from the control panel in the platform. The work table can be folded up to take up less space when storing the lift. The work table has a locking pin (see picture) to secure the table's position. The locking pin is located on the left side of the work table. To change the position of the work table, the locking pin is pulled out at the same time as the work table is folded.

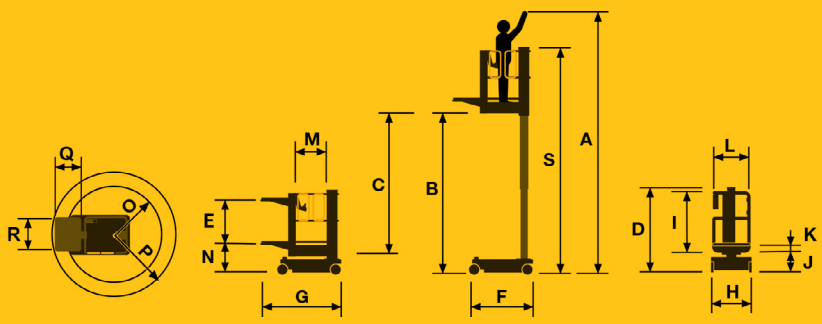


WARNING!
Max load of work table is 50 kg. Secure the load on the work table so that it cannot fall off.

3. TECHNICAL DATA

Max total platform load (operator + work table load)	165 kg
Max number of people on the platform	1
Max load of work table	50 kg
Lifting time (165 kg)	16 s
Lifting time of work table (0 kg)	7,8 s
Lifting time of work table (50 kg)	11,5 s
Weight	386 kg
Maximum wheel load	163 kg
Maximum inclination of lift at work	1°
Maximum manual lateral force on platform	200 N
Maximum wind speed (indoor use only)	0 m/s
Noise level	< 70 dB(A)
Speed	Lowered 4 km/h, Raised 2 km/h
Power source	2 pcs 12V batteries, 110Ah (C20), maintenance-free
System voltage	24 V
Battery charger	230 V, 50 Hz / 60 Hz
Lifting system	Single hydraulic cylinder
Wheels	⌀ 200 mm, polyurethane wheel coating, leaves no marks
Parking brakes	Automatic (electric)

A	Working height	4950 mm
B	Platform height	2950 mm
C	Stroke length	2600 mm
D	Total lift height (lowered)	1620 mm
E	Work table stroke length	830 mm
F	Total length of lift (work table folded up)	1161 mm
G	Total length of lift (work table folded down)	1550 mm
H	Total width of lift	766 mm
I	Height of platform railing	1100 mm
J	Height to platform floor	350 mm
K	Height of skirting board	150 mm
L	Width of platform	625 mm
M	Minimum length of platform	586 mm
N	Minimum work table height	610 mm
O	Turning radius (work table folded up)	1200 mm
P	Turning radius (work table folded down)	1568 mm
Q	Length of work table	625 mm
R	Width of work table	539 mm
S	Total lift height (raised)	4220 mm



4. LIFT CONTROLS

1. Emergency stop
2. Raising of work table
3. Lowering work table
4. Signal horn
5. On/Off indicator driving
6. On/Off driving
7. Raising of basket
8. Lowering of basket
9. On/Off warning light
10. Low/High speed indicator
11. Regulation of low/high speed
12. Joystick for driving
13. Electric foot switch
14. Lockable wheels - The SP50 also has automatic brakes on the drive wheels
15. Flashing warning light
16. Reading of battery charger status
17. Emergency lowering (mechanical)
18. Switching on/off the electric motor drive
19. Main switch 24 V
20. Socket for battery charger cable, 230 V
21. Emergency lowering (electric)

4.1 Indications on the control panel

5 Battery indicator

Solid Red: Low battery charge

Solid Yellow: Medium battery charge

Solid Green: Fully charged

Flashing Red: Battery empty, needs to be charged

Flashing Green: Overvoltage

10 Speed mode

Solid Green:
Low speed, 2 km/h

Solid Yellow:
High speed, 4 km/h

Flashing Red:
Error indication

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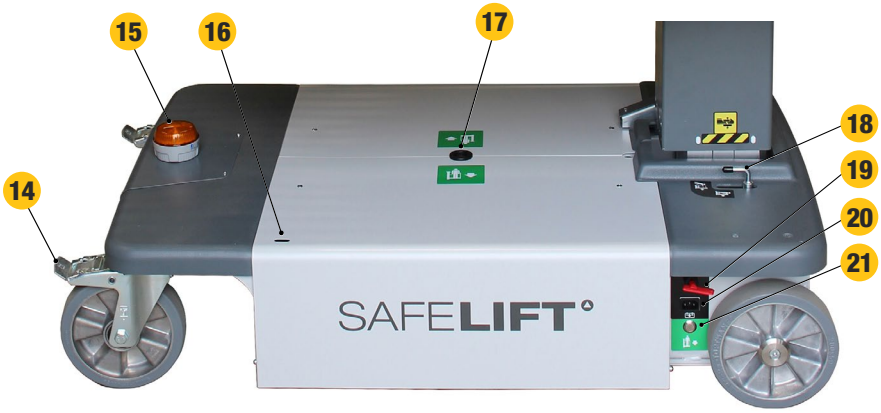
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5. WARNING DEVICES

Annual inspection of warning devices and protective devices must be carried out. This refers to the control of their function and status.

5.1 Warning texts

WARNING!
Ignoring this information will result in immediate danger to life.

REQUIREMENT!
Correct use of the personal protective equipment or other means.

NOTE!
Information that requires special attention.

Read and understand all instructions and safety information before use
All personnel must carefully read, understand and follow all safety instructions, as well as operating instructions in this instruction manual before performing operation or maintenance.

5.2 User warnings

Tilting hazard
NEVER raise the platform or transport with a raised platform on anything other than a horizontal solid surface.

Risk of collision
NEVER operate the machine before having checked that the area around the machine is free of obstacles or other hazards.

Risk of falling
NEVER climb, sit or stand on the platform railing. If the platform cannot be lowered, NEVER climb down the mast.

Electricity
This lift is not isolated against electric current. It is therefore necessary to have a correct safety distance to the high-voltage conductors or other current carrying objects.

Always lock the wheels to prevent the lift from being moved unintentionally
Make sure that electric motor drive is activated or lock the swivel castors before raising or lowering the platform, for extra stability.

Risk of crush injury
To prevent crush injuries, make sure that people or other equipment are not within the lift's working area. Observe the danger signs that are placed on the lift.

The lift may only be used indoors on flat and solid surfaces that are suitable for the load of the lift.

The lift must not be exposed to liquids, a humid environment (humidity ≤90%) or a temperature lower than 0 °C or higher than 40 °C.

The lift must not be used as a crane. Never push or pull objects with the lift.

Never increase the height of the platform by using stairs or ladders etc.

Make sure that the operator uses appropriate safety equipment.

Make sure that the safety gate is closed when using the platform.

Lock the lift (remove the lift's main switch key) when not in use to prevent unauthorised use.

Make sure that the working area around the lift is protected from people or other equipment.

Max load of work table is 50 kg. Secure the load on the work table so that it cannot fall off.

6. MACHINE SAFETY CE

The lift is marked with a CE mark. This means that it is designed, manufactured and described in accordance with EU Machinery Directive 2006/42/EC (see page 17).

6.1 Requirements for personnel & safety regulations

To avoid personal injury and machine damage, the operator and operating personnel will be instructed or trained in accordance with the manufacturer's instructions. The operator and operating personnel are only allowed to handle the parts they have been instructed or trained on.

All controls and buttons must only be operated with hands. In other words, these must never be activated by any other means unless otherwise specified. The operator must never leave the lift unattended. This will prevent injury of unauthorized persons.

- The lift may only be used by trained personnel, and may only be used when the user has read and understood the contents of the current user manual.
- The lift may only be used for the predetermined purpose and only with the mounted protective devices. All applicable safety precautions will be taken into account.
- The daily maintenance work must only be carried out by trained personnel.
- The electrical work may only be carried out by qualified professionals.
- Work on live parts is not allowed.
- Rebuilding, repairs and modifications to the lift may only be carried out by complying with the applicable safety regulations.
- Only original spare parts may be used upon repairs.

6.2 When rebuilding the lift

- If the lift is rebuilt or supplemented with other parts not approved by the manufacturer, this CE marking does not apply to the parts that change the function of the lift. Warning decals and CE marking on the lift must be clearly visible.
- If any machine part with warning sticker is replaced, new warning stickers must be mounted in the same place as before.

- Damaged decals and CE mark must be replaced immediately.
- If the lift is rebuilt after approval from the manufacturer or supplemented, it is very important that this instruction is immediately supplemented / adjusted with the necessary illustrations, photographs and texts.

6.3 Manufacturer

This lift is made by:
Safelift Sweden AB
Kvarnvägen 14
SE-352 41 Växjö
SWEDEN

6.4 Labelling

The lift is fitted with this nameplate:

6.5 Checks before use

1. Inspect the lift for damage, loose screws or oil leaks.
2. Check that the batteries are charged and that the charging cable is disconnected.
3. Check that the swivel wheels are not damaged and that they can be locked.
4. Check that the drive wheels are not damaged and are firmly anchored by inspecting that the safety markings on the wheel bolts are in a straight line.

7. HOW TO USE

All safety regulations, operating instructions, labels and national safety instructions / requirements must be carefully read, understood and complied with.

7.1 Main switch 19

The lift's main switch is located at the lift's left rear wheel. Always switch off the main switch when not in use to save power. Remove the key to the main switch to prevent unauthorized use.

7.2 Foot switch 13

The electric foot switch on the platform floor must be pressed down for the lift to run, raise/lower the platform or raise/lower the work table.

7.3 Raising of platform 7

Press the upper button, marked with the platform symbol, which is located on the control panel in the platform.

7.4 Lowering of platform 8

Press the lower button, marked with the platform symbol, which is located on the control panel in the platform.

7.5 Horn 4

The lift is equipped with a horn. The horn button is located on the control panel in the platform.

7.6 Tilt sensor

SP50 is equipped with a tilt sensor that prevents the lift from being driven or the platform being raised, if the lift is tilted more than 1°. When the tilt sensor is activated, a warning sound sounds. To be able to use the lift again, the platform must be lowered to its bottom position and the lift moved to a floor surface that is inclined less than 1°.

7.7 Emergency stop 1

The lift is equipped with an emergency stop function. Press the emergency stop button to turn off the power. Rotate the emergency stop button clockwise to reactivate the power.

7.8 Emergency lowering 21

The lift is equipped with two emergency lowering systems. Emergency lowering of the platform is done either with an electric button located at the main switch on the side of the chassis or a mechanical button located on the top of the chassis covers.

WARNING!
If the platform can't be lowered, NEVER climb the mast. Ask someone on the ground to turn on the emergency lowering button to lower the platform. Keep a safe distance to the mast when the emergency lowering is activated.

7.9 Transport of the lift with a lifting crane

A lifting device may only be fastened to the intended lifting eyes that are screwed into the chassis (M10 x 4).

7.10 Transport of the lift with a forklift

WARNING!
Lifting with forklift is only for transport of the lift. Must never be used to increase the lifting capacity. Check the weight of the lift in the specifications and make sure the forklift truck has a sufficient lifting capacity to lift the lift. The arms of the forklift are placed under the lift from the side.

7.11 Transport of the lift by truck

- Do not operate the lift on the truck.
- Block the wheels with blocks.
- Transport the lift in the lowered position.
- Secure the lift on the truck.

NOTE!
Tightening of straps or chains may result in damage to the lift.

8. MAINTENANCE

WARNING!
The service or maintenance on the lift must never be performed with raised platform without having secured the platform against unintentional lowering. Do not stand under the platform when this is being secured in the raised position or when it is removed.

8.1 Blocking the platform in raised position

a) Installation of ratchet block

1. Park the machine on a fixed horizontal surface.
2. Turn the main switch to ”ON” position.
3. Raise the platform approx. 1.2 meters.
4. Place a solid ratchet block, 21 mm x 100 mm x 450 mm between the second mast section and the chassis, just behind the mast.
5. Slowly lower the platform until the other mast section is in a resting position on the ratchet block.
6. Turn the main switch to ”OFF” position.

b) Dismantling of ratchet block

1. Turn the key switch to ”ON” position.
2. Raise the platform stepwise until the ratchet block can be removed.
3. Remove the ratchet block.
4. Lower the platform.

8.2 Hydraulic oil

The hydraulic oil tank is located under the steel covers on the chassis.

NOTE!
Never fill the hydraulic oil when the platform is not blocked.

Control of hydraulic oil

1. Ensure that the platform is blocked according to 8.1.
2. Remove the covers on the chassis.
3. Unscrew the tank cap.
4. Check the oil level.
5. If necessary, fill it with the recommended oil type:
   Motorex Corex HV46 (DIN 51524/-2/-3 EN ISO 6743-4).

8.3 Maintenance of battery

WARNING!
Risk of explosive gas mixture. Avoid keeping batteries near open fire, sparks or smoke.

Battery acid is very corrosive. Always wear safety goggles when working with and near the batteries. Immediately rinse any spilled acid with clean water. Consult a physician in case of contact with battery acid.

Old worn out batteries must be replaced with batteries from Safelift or with batteries approved by the manufacturer.

Keep the poles and top of batteries clean.

8.4 Charging the batteries 5

Charge the batteries after each shift or more frequently if the charging level is low.

Off ○/● On

Yellow	Green	Green	Indication
●	●	●	Mains supply not connected
●	●	●	Charging complete
○	●	●	Main charging in progress
○	●	●	Trickle charging
●	●	●	Long charging time

WARNING!
Charge the batteries in a ventilated area. Do not charge the batteries near open fire or where there is a risk of sparks being generated.

Do not disconnect the battery cables when the battery charger is running. Keep the battery charger dry. Connect a charging cable to a grounded 230V power outlet.

NOTE!
The charger must be connected to a socket with earth-fault protection. Do not use the lift while charging.

8.5 Inspection & maintenance intervals

A complete inspection consists of periodic visual and functional checks along with minor adjustments in order to ensure the function. The daily inspection prevents the abnormal wear and prolongs the life of all the lifts systems.

Inspection and maintenance will be performed at specified intervals. Inspection and maintenance must be carried out by trained personnel who are knowledgeable in terms of electrical and mechanical functions.

REQUIREMENT!
Before performing daily maintenance, learn how the lift works and is operated.

VARNING!
Always secure the platform from moving when maintenance is performed with the platform raised.

The daily maintenance list shows the service and maintenance points on the lift. Copy the list and use it when inspecting the lift.

9. DECLARATION OF CONFORMITY

SAFELIFT

Declaration of Conformity CE

Manufacturer: Safelift Sweden AB
Kvarnvägen 14
SE-352 41 Växjö
SWEDEN

Safelift Sweden AB, VAT-no: SE 556820966101, declares that the following product:

Machine type:	Mobile Elevating Work Platform
Model:	S P 5 0 _ _
Serial number:	4 0 _ _ _ _ _
Year of manufacture:	2 0 _ _
Date of manufacture:	_ _ _ _ _ _ (YYMMDD)

has been manufactured in accordance with the following product directives:

2006/42/EC; 2014/30/EU; 2014/35/EC

and in conformity with the relevant parts of the following reference standards:

EN ISO 60204-1:2006, EN ISO 13850:2008, EN ISO 7731:2008, EN ISO 13849-1:2008, EN ISO 12100:2010, EN ISO 14121-2:2012, EN 280-1:2022

.....
SIGNATURE

Name: Bo Arrhén
Title: CEO
Date: 250929 (YYMMDD)
Place: Växjö

NOTE! This declaration complies with Annex II, Part A, of 2006/42/EC. In case of modification or alteration of the above-mentioned lift, this document becomes void.

NOTES

NOTES

SAFELIFT

Made in Sweden

ADDRESS
Safelift Sweden AB
Kvarnvägen 14
SE-352 41 Växjö
Sweden

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