

ROTATOR SELFR/SELFSR, SELFRA/SELFSRA

S919





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1.0 Before the first lift...

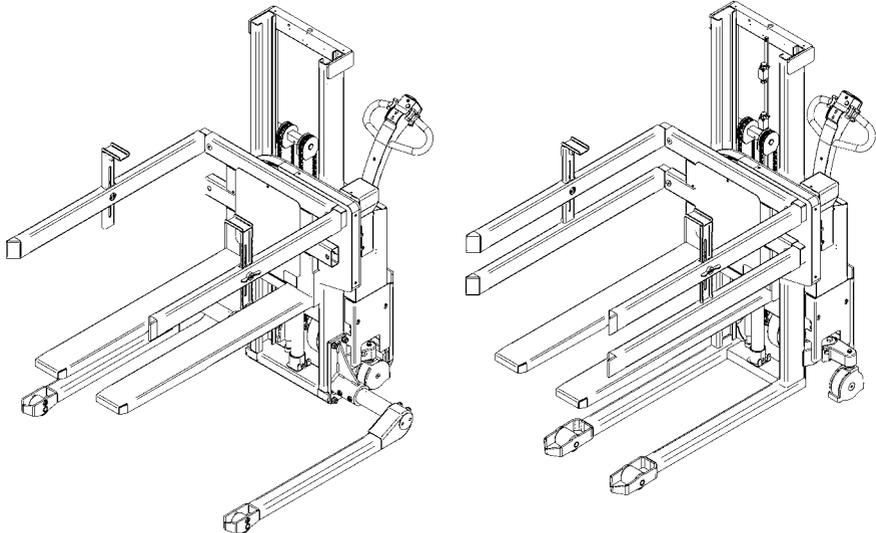
The **Rotator** is manufactured in accordance with safety directives.

Among other subjects dealt with in this Instruction Manual are:



- Proper application
- Physical limitations of the product
- Risks with improper use

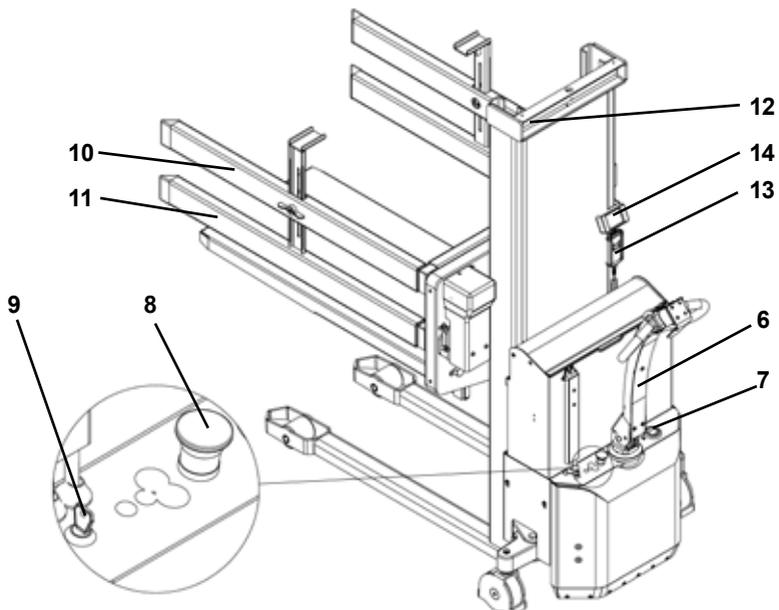
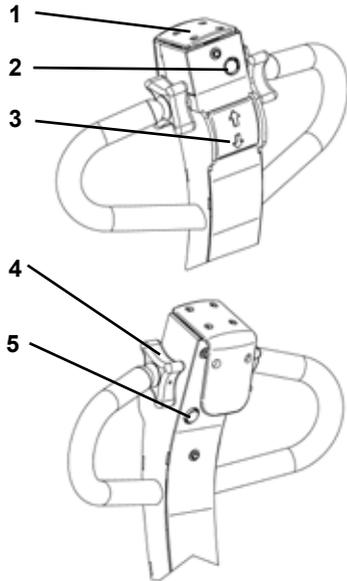
Therefore please read this Instruction Manual carefully!





2.0 Functions and identifications

- 1.Safety switch
- 2.Horn
- 3.Lift/Lower
- 4.Forward/Reverse
- 5.Multiflex function
- 6.Handle
- 7.Battery indicator/ hour counter
- 8.Emergency stop
- 9.Ignition key
- 10.Box holder with clamps
- 11.Box holder without clamps
- 12.Name plate, serial number
- 13.Remote control
- 14.User-Interface



2.0 Functions and identifications

2.1 Box holder

The Rotator can be equipped with one or two sets of box holders, adjusted for different box sizes. When loosening the screw (A), the box holder can be moved between the four different positions.

NOTE! The screw has to be tightened, before using the product.

Setting of distance between box holders

Fork span 560 mm: Distance between box holders of 840, 890, 1000 or 1040 mm, for box widths of 800, 850, 950 or 1000 mm.

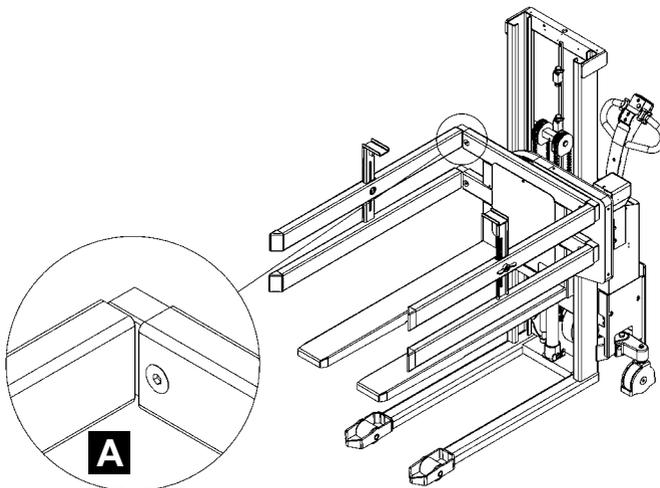
Fork span 680 mm: Distance between box holders of 1040, 1090, 1200 or 1240 mm, for box widths of 1000, 1050, 1150 or 1200 mm.

Setting of height

The box holders can be placed in two different heights:

- It is important that the box holders are placed approx. on the level of or above the load centre of the load.
- Use two box holders in each side:
 1. When the weight of the load is between 500 and 1000 kg.
 2. For high boxes or when the material of the box is unstable, e.g. cardboard

NOTE! If the box holders have no clamps, the load is not allowed to be tilted more than 60° to each side.



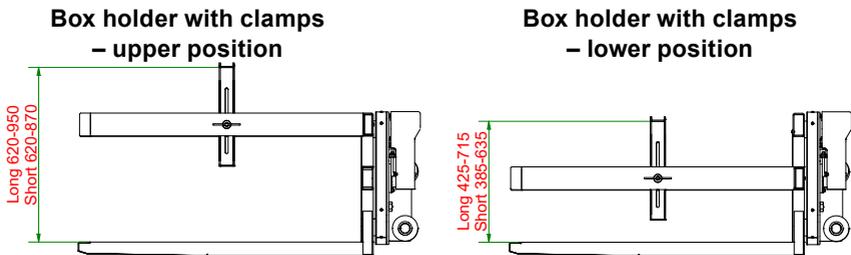
2.0 Functions and identifications

2.2 Box holders with clamps

If the box can fall off, or if it has to be tilted more than 60°, box holders with clamps have to be used.

Box holders with clamps can grip, hold and rotate boxes with different heights.

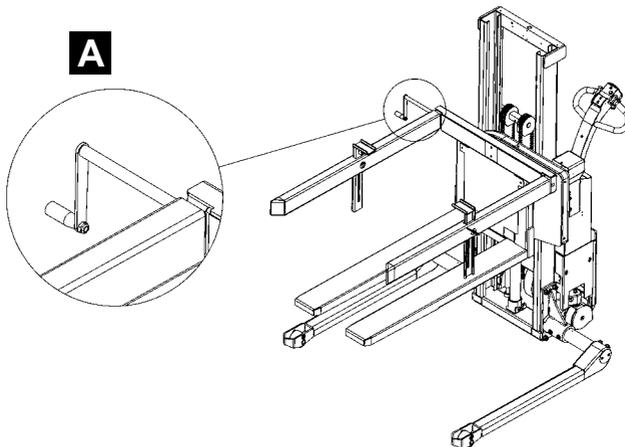
The clamps are to be tightened when the box is lifted from the floor.



2.3 Box holder - adjustable (SELFRA/SELFRA)

If handling boxes with different widths, Rotator can be provided with adjustable box holders.

Using the handle (A), adjust the width of the box holders to fit different box widths (between 800 mm and 1200 mm).

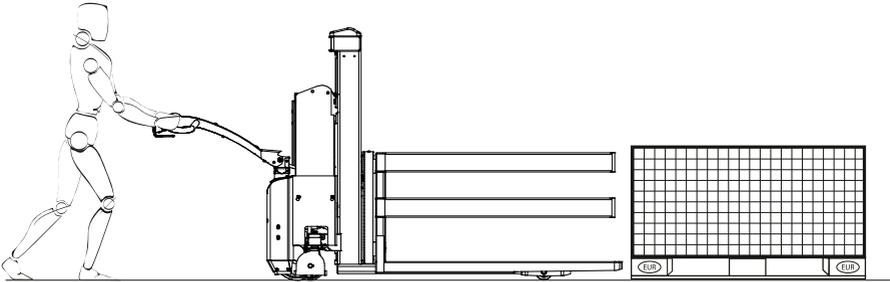




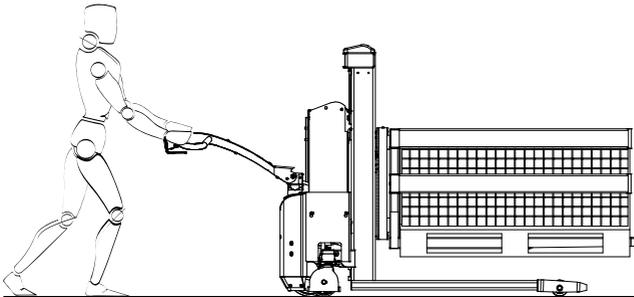
3.0 How to operate the Rotator

3.1 Pallet handling

The Rotator functions as an ordinary stacker, when the forks are placed in horizontal position.

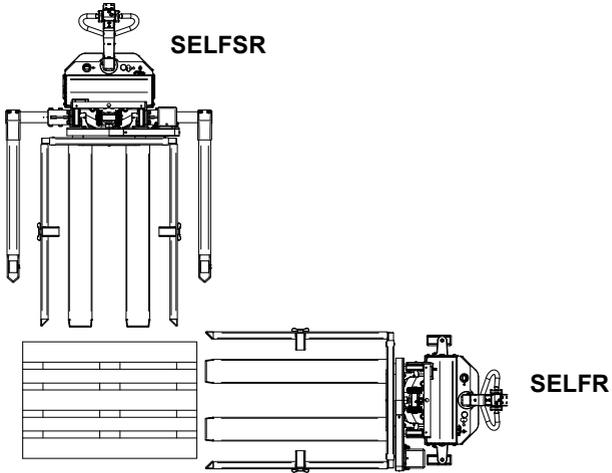


For proper operation, stand behind the handle.



3.0 How to operate the Rotator

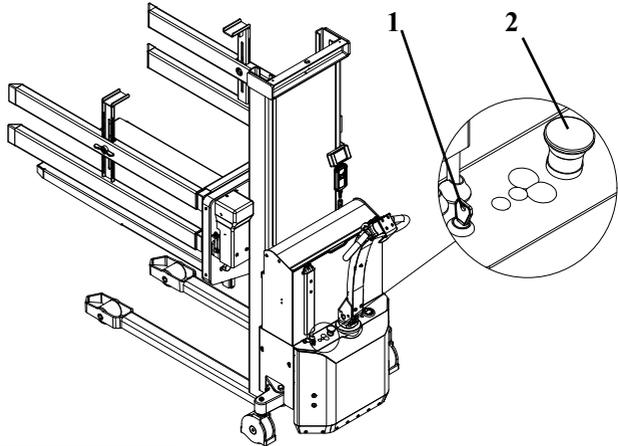
When handling closed pallets - use the Rotator with straddle legs!



3.0 How to operate the Rotator

3.2 Use of the Rotator

Insert key (1) and turn clockwise to switch on control current ready for function activation.



Note!!! Emergency stop (2) must not be activated.

Condition: The upper edge of the forks is lifted between 400 and 900 mm.

The load can be rotated 360° with one adjustable stop in every side.

Note!: If you want rotation to continue, it is necessary to release/press the rotation switch on the remote control again.

To lower the forks fully or to lift higher than 900 mm, the forks have to be placed in horizontal position.

Soft acceleration / deceleration

The Rotator has soft acceleration / deceleration with the following benefits:

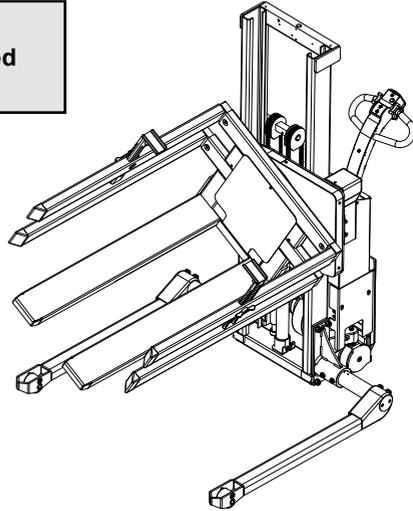
- The rotation stops precisely
- The gear is protected, because sudden start / stop are minimised

3.0 How to operate the Rotator



NOTE!

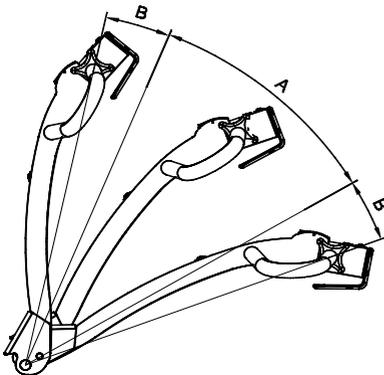
The load has to be supported sideways before tilting.



3.3 Handle functions

The control functions of the Rotator are located in the handle (6).

- The functions are dependent on the positions of the handle.



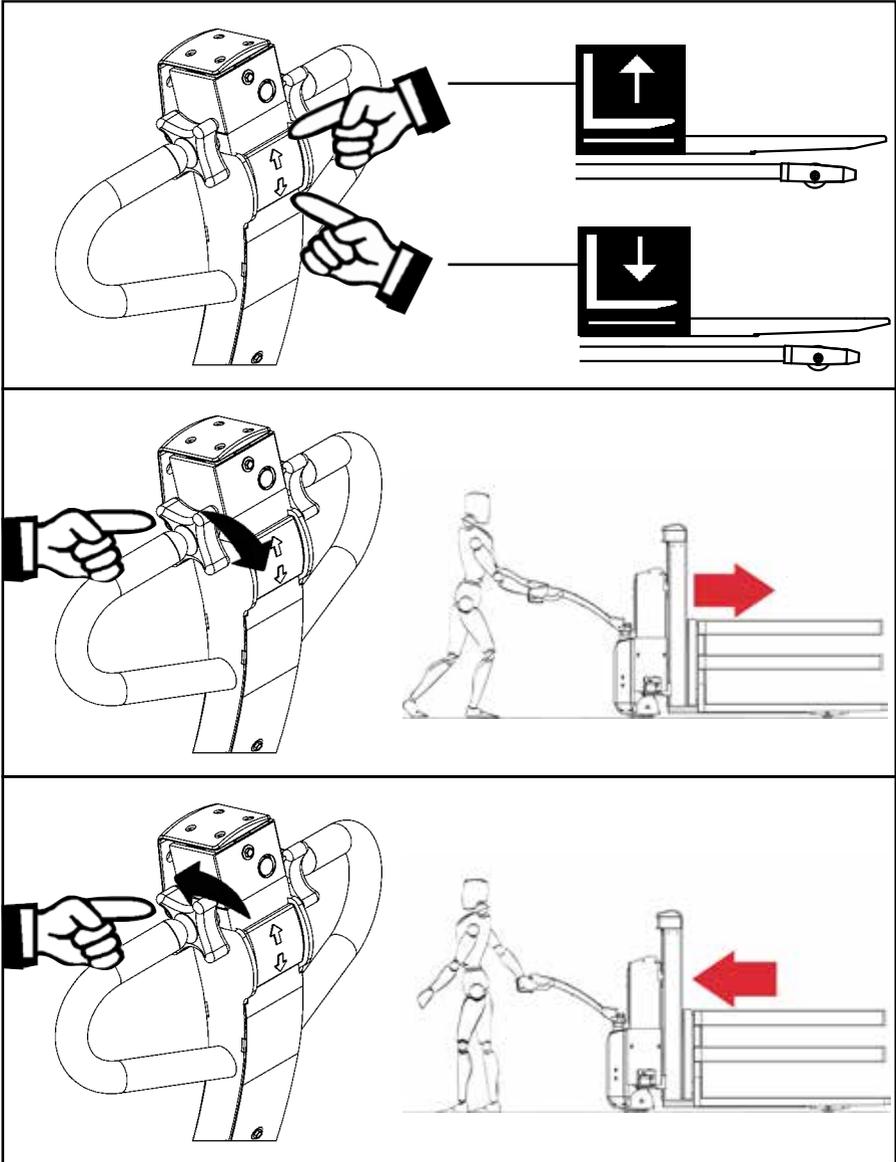
Position A: Drive position

- Drive current on
- Brake deactivated

**Position B: Stop/Brake/
Emergency Stop**

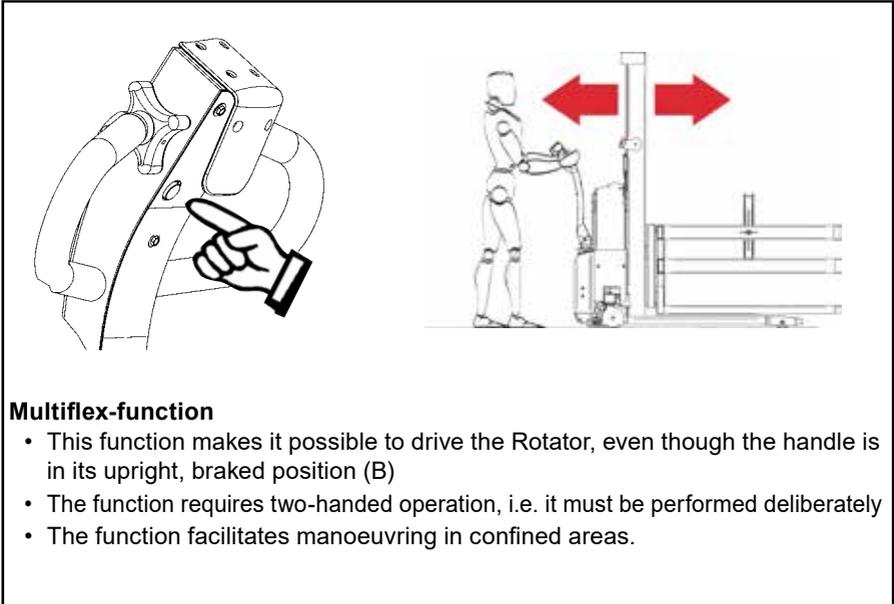
- Drive current off
- Brake activated

3.0 How to operate the Rotator



3.0 How to operate the Rotator

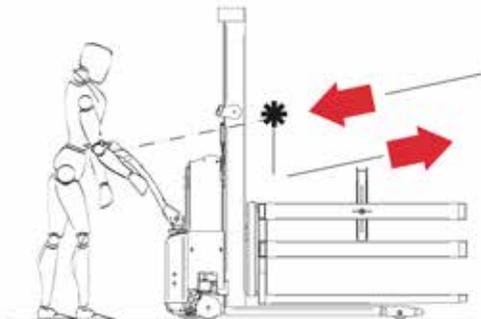
3.3.1 Multiflex-function



3.3.2 The safety switch

The safety switch on the end of the handle ensures that the operator cannot be trapped when the Rotator is reversed.

When the safety switch is activated, the stacker will change direction, move forwards and stop.

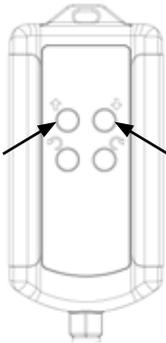


3.0 How to operate the Rotator

3.4 Remote control MR-1 / Lifting-Lowering-Rotation

- The remote control is used for:
- Lifting/lowering the forks/load
- Rotating the forks/load

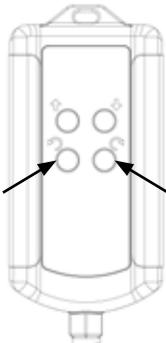
Lifting / Lowering



↑ Press to lift.

↓ Press to lower.

Rotation:



Press for rotation in the direction of the arrow.

From the factory, the rotation is set to rotate continuously.

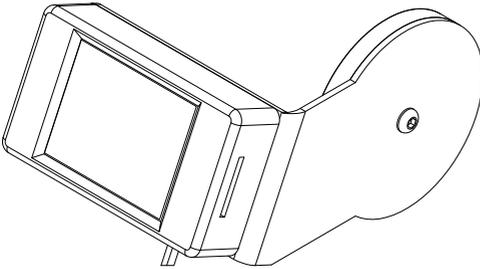
The forks can be rotated 360°

3.0 How to operate the Rotator

3.5 User-Interface LUI-1 Rotator

User-Interface LUI-1 for:

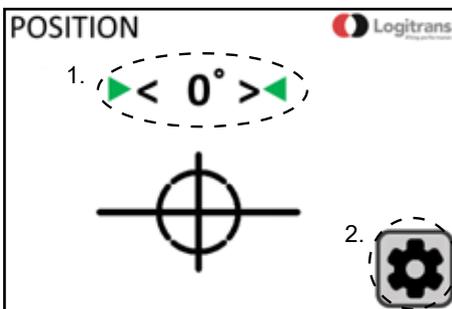
- Setting speed for rotation
- Setting up to three stop position/angles in both rotation directions



3.6 Setting up User-Interface LUI-1 Rotator

3.6.1 Home screen

When starting the machine/deactivating the emergency stop in User-Interface LUI-1, the home screen is shown on the display.

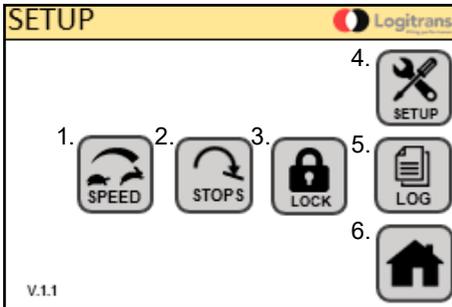


1. Fork position,
 - With green arrow - horizontal (0°)
 - With red arrow - programmed angle
2. Settings (SETUP)

3.0 How to operate the Rotator

3.6.2 Set-up menu

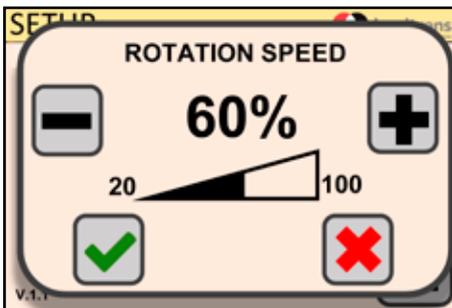
Pressing the (SETUP) icon on the home screen will open the following window:



1. Rotation speed (SPEED)
2. Angle-stop (STOPS)
3. Supervisor lock (LOCK)
4. Service menu (SERVICE)
5. Usage data (LOG)
6. Home screen (HOME)

3.6.3 Setting of rotation speed

At the Setup menu, press "SPEED" to adjust rotation speed.

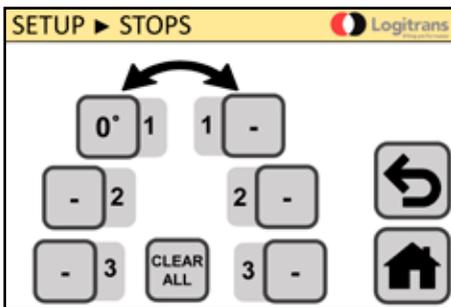


1. Use +/− to adjust the speed.
2. Use ✓/✗ to accept/cancel the choice and return to Setup menu.

3.0 How to operate the Rotator

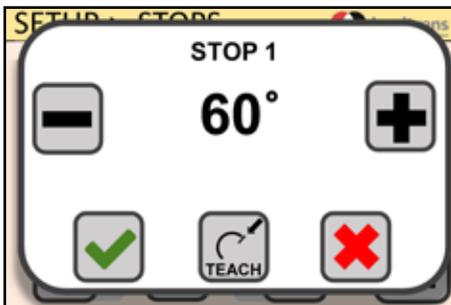
3.6.4 Setting of stop position

From the factory, the forks are set to rotate continuously. When the forks have rotated 360°, the machine stops rotating. If you want rotation to continue, it is necessary to release/press the rotation switch on the remote control again. It is possible to set up to three stop positions/angles for rotation in both directions. If the machine is set with one or more stop positions/angles, the machine cannot rotate further than the last set stop position/angle.



At home screen (HOME) press settings (SETUP), and afterwards STOPS, and the following is shown.

At the Stops menu, press on the first stop in the requested direction, and the following is shown.



1. Use \pm to choose the size of the angle or use "TEACH" to choose actual position.
2. Use \checkmark / \times to accept/cancel choice and return to Stops menu.
3. At the Stops menu choose the next stop position/angle and repeat the procedure.

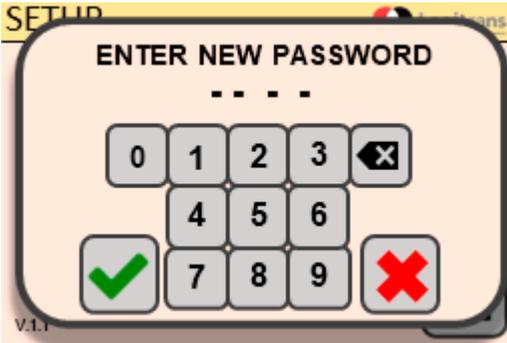
3.6.5 Deleting stop positions

At the Stops menu, press "CLEAR ALL" to delete all set stop positions/angles.

3.0 Operating the Rotator

3.6.6 Supervisor lock

If you wish to stop all users from being able to change the settings, you can lock the settings with a password under Supervisor lock. Appoint a supervisor who will be responsible for locking and/or changing the settings.

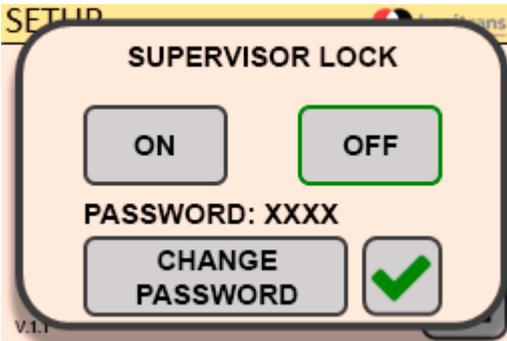


If the Supervisor forgets the password for the Supervisor lock, a service technician will be able to unlock the display.

On the home screen, press Lock to access the Supervisor lock menu.

Select whether the Password should be On or Off.

Under Change Password, you have the option to enter the new Password.



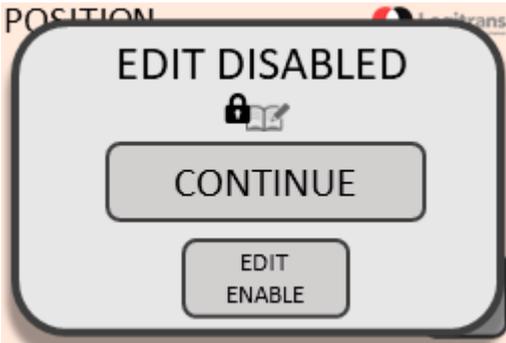
1. Use the number keys on the display to create a new Password.

2. Use ✓/✗ to confirm/cancel a choice and return to the Supervisor lock menu.

3.0 Operating the Rotator

3.6.7 Supervisor lock

If the settings in rotator menus are locked with a password, the following will be displayed in future:



Selecting continue will still allow you to view the different settings, but you will not be able to modify the settings.

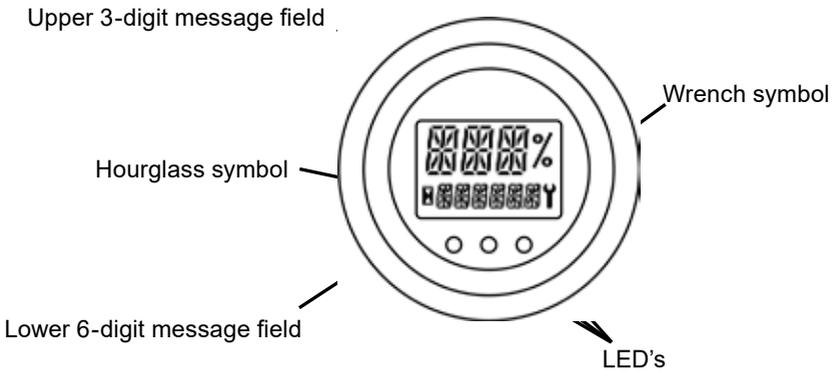
Selecting Edit Enable will take you to Enter New Password, where you can enter a Password, then make various settings on the respective menus.

3.0 How to operate the Rotator

3.7 Battery Info display

The display can show the following information:

- The BDI or BOC – Battery state of charge
- Machine operating hours
- Fault codes/warnings
- State of operation LED's



3.7.1 BDI

The remaining capacity of the battery or BDI is showed in the upper 3-digit field in percentage.

If the BDI is lower than 30% - a "LOBATT" warning will be showed in the lower 6-digit field.

3.0 How to operate the Rotator

3.7.2 Machine operating hours

3 different operating hours are being logged:

- "TOTAL/KEY ON" hours - the total hours with power on the truck.
- "TRACTION" hours - the hours the traction motor has been in operation.
- "PUMP" hours - the hours the hydraulic pump has been in operation.

Under normal operation the total hours ("TOTAL") are displayed in the lower 6-digit field.

If the Forward/Reverse switch is activated shortly - the traction hours ("TRAC") will be displayed.

If the Lift/Lower switch is activated shortly - the pump hours ("PUMP") will be displayed.

3.7.3 Faults

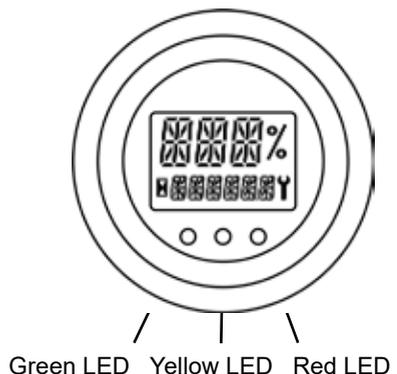
If a fault is present, the red LED, the message "FAULT" and the Wrench symbol will be flashing and the fault number is showed in the upper 3-digit field.

(See point 7.1 for Fault code description)

3.7.4 State of operation LED's

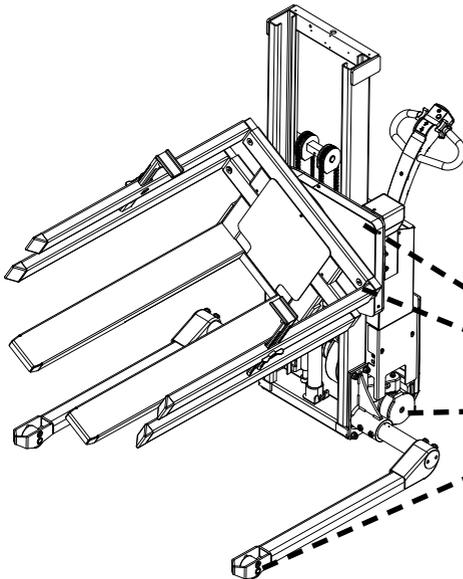
The LED's indicate the state of operation:

- Green - Normal operation
- Yellow - Warning state, low battery - less than 30%
- Red - Warning state, low battery - less than 15%
- Flashing Red - Fault/error state/battery too low





4.0 Optimum safety



ATTENTION!!
Moving parts



4.1 Safety regulations

- Never walk under a raised load!
- Before lowering the forks, make certain that no foreign elements can hinder the free lowering of the forks
- The Rotator is designed for use on an even and level floor
- During transport the forks shall be raised as little as possible
- Transport with raised forks should be made over the shortest possible distances and at low speed
- Check that the chains lift equally. They shall be equally tight when the forks are loaded
- Chains and chain bolts must not be damaged. Chains that have become permanently stretched (max. 2 % of original length) must be scrapped.



4.0 Optimum safety

4.2 Avoid overloads

The maximum load must not be exceeded. **Remember**, that the Rotator is designed for evenly distributed load, - goods on pallets etc. If the forks are point-loaded on one side, there is a risk of bending.

NOTE! When driving with the truck, the forks should be placed in horizontal position.

Max.capacity of the Rotator/Multi-purpose carriage: 1000 kg / 700 Nm
(see load diagram).

Load diagram

When the forks are tilted, the spatial position of the load changes. This means that the load capacity that can be tilted is reduced, the larger the distance is between load centre of the load and rotation centre.

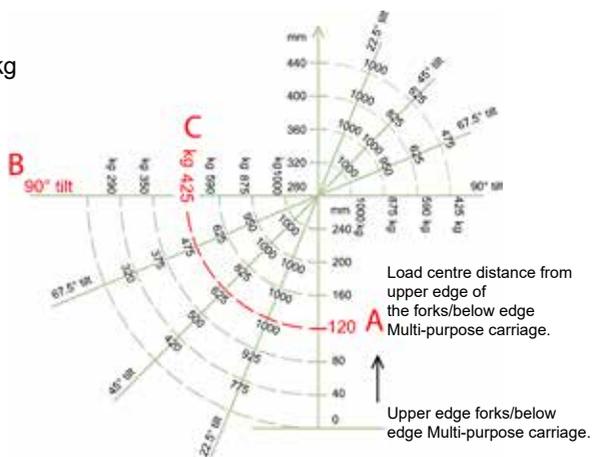
In order to use the load diagram, the following three facts have to be known:

- The distance from the upper edge of the forks/below edge of the Multi-purpose carriage to the load centre
- Requested tilt degree
- Weight of the load

Example:

- The load centre is placed 120 mm (A) over the forks/ below edge Multi-purpose carriage
- Tilt degree: 90° (B)
- Weight of the load: 400 kg

It appears from the load diagram that the maximum allowed load is 425 kg (C).



NOTE! If the load centre exceeds the allowed distance shown in the load diagram, there is a risk that the Rotator will turn over, when rotating.

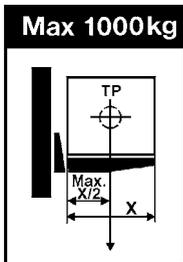
4.0 Optimum safety

4.3 Avoid offset loads

The load must be evenly distributed. The maximum centre of gravity distance from the front of the fork mast (given on the truck) must not be exceeded. A greater distance reduces the level of safety and increases the risk of toppling.

Goods on pallets, etc. must be properly secured, so that they cannot fall off during transport, when the truck is lifted, or when the truck must remain lifted for a time.

Marking



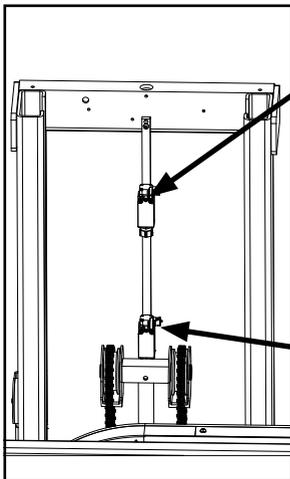
The mast lifting capacity and the corresponding centre of gravity distance are given by the pictogram on the side of the mast.

The lifting capacity of the mast is the same as the max. lifting capacity of the product.

Max. lifting capacity is set on the safety valve of the product.

4.4 Rotation range Standard version

The load can be rotated, when the upper edge of the forks are lifted between 400 and 900 mm. Outside this range, the stacker functions as a standard stacker.



Top stop

Indicates that the forks are lifted 900 mm above the floor.

NOTE! Top stop is only placed on Rotator with lifting heights, being higher than:
920 mm SELFR
890 mm SELFSR

Bottom stop

Indicates that the forks are lifted 400 mm above the floor.

4.0 Optimum safety

Special version

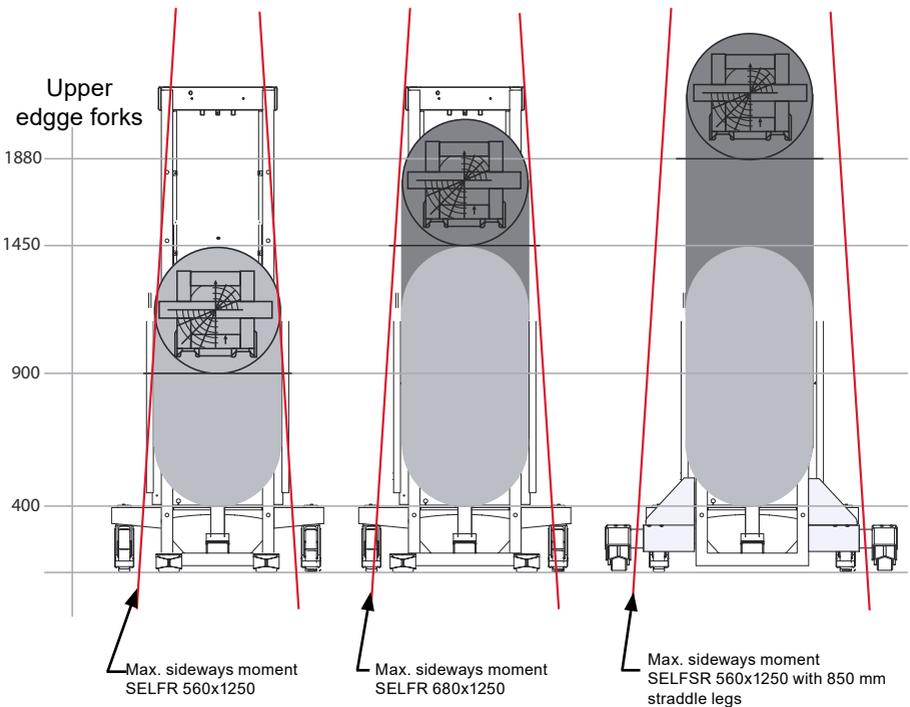
The top stop can be set to other intervals than between 400-900 mm.

The height of the top stop depends on the width of the Rotator, as a wide Rotator can manage a larger sideways movement.

E.g. On a Rotator with 850 mm straddle legs, the stop can be placed at a maximum fork height of 1880 mm.

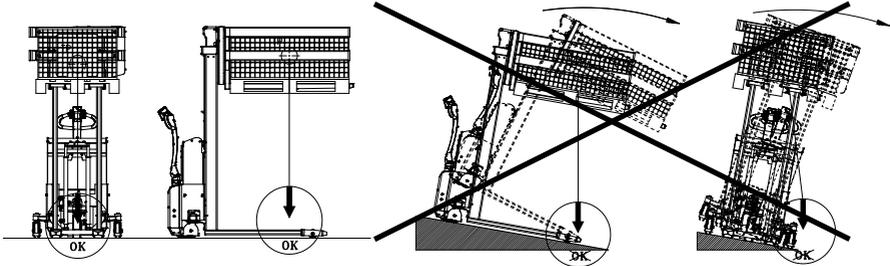
Normal range for the maximum load 1000 kg /700Nm, fork height 400-900 mm.

Range of maximum load 1000 kg /700Nm of Rotator in special version



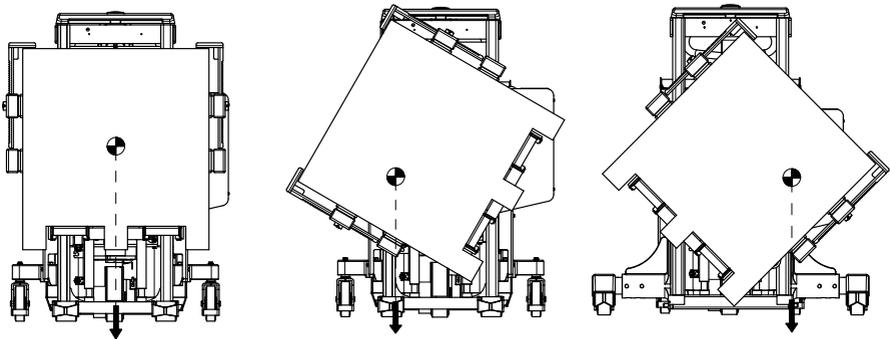
4.0 Optimum safety

4.5 Driving loaded



The load centre is never allowed to exceed the centre line of the wheels. The driving speed is reduced when lifting the forks above 400 mm.

4.6 Rotation with load



The load centre is not allowed to be placed on the outside of the legs of the stacker, as this will cause a risk of turning over. **NOTE!** Rotation is only allowed to take place, if the Rotator is placed on an equal floor. The load is not allowed to be dislocated during rotation.

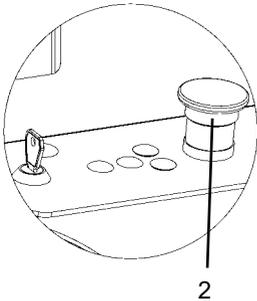
BE CAREFUL!

When rotating boxes, the operator needs a full overview of the whole working area, so that the rotation movement can be stopped before the box touches the floor, the items or persons in the working area.

4.0 Optimum safety

4.7 Emergency stop

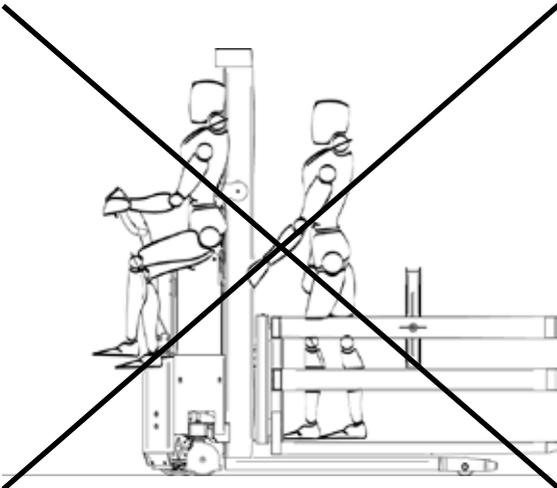
The product has an emergency stop (2). When activating the emergency stop, the main current supply is switched off.

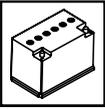


- The movement of the forks stops immediately
- Driving with the truck stops immediately
- The emergency stop is deactivated by turning the switch to the right.

4.8 Personal safety

Transporting or lifting persons by means of the Rotator **is not allowed**.





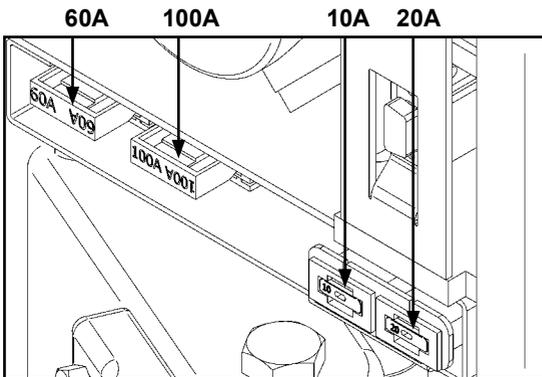
5.0 There must be a current supply..

5.1 Fuses - replacement



There are four fuses in the electrical circuit, located behind the plate with this pictogram.

- 60 Amp fuse for Rotator
- 100 Amp fuse in the main supply from battery
- 10 Amp fuse in the control current circuit
- 20 Amp fuse for built-in charger



Replacement:

The old fuse is to be removed and replaced by a new one of the same size.

Find out why the fuses blow!

5.2 Wiring connections

Many operational disturbances are caused by bad connections in the electrical circuit. Make sure that the connections are in order.

Check connections regularly for damage at insulating caps or bad connections at plugs etc. Verdigris must be removed from cable plugs. Keep all screw/nut connections tight.



6.0 Long live the Rotator

Regular inspection and the replacement of worn or defective parts in good time will prolong the life of the Rotator. "Prevention is better than repair", therefore ensure:

- That the battery is fully charged every time
- Correct usage
- Regular cleaning
- Periodic safety and service inspection (see the back page)

Due to safety reasons, the below points have to be checked every 3 months:

- Loose screws and nuts have to be tightened up.
- Breaches, cracks or deformations are not allowed on the load-bearing parts.
- Wearing parts, such as brakes, wheels and bearings, are to be adjusted or changed continuously

6.1 Lubrication and hydraulic oil



Under normal operation conditions the Rotator requires no lubrication.

All ball bearings are sealed and lubricated for life, and moving parts have self-lubricating bearings or are treated with grease. The hydraulic system is filled with hydraulic oil of viscosity class ISO VG 15.

An additive is added to the oil. The concentrate reduces friction and wear and protects against corrosion. Pre-mixed hydraulic oil with additive is available from the dealer. The oil is suitable for use in the temperature range -10 to +50° C. A thinner oil is recommended for temperatures lower than -10° C (if necessary, contact your dealer).

6.0 Long live the Rotator

6.2 Oil change

Draining the oil:

1. Bring the unloaded forks down to the lowest position.
2. Most of the oil can be drained by loosening the hydraulic hose union in the bottom of the cylinder. Activate the hydraulic pump by pressure on the switch. The oil will run out.
3. Take off the side plates.
4. Take off the cables of the battery. Remove from the battery box: cables, two mounting bolts and cable holder and push the battery box to the right.
5. The remaining oil is emptied from the oil tank by sucking up the oil.
6. Place the hydraulic hose again.
7. Oil is filled in by removing the oil filler cap from the tank.
8. Oil quantity:

The oil level is measured from the upper edge of the tank and downwards

| | | Oil level |
|--------------------------|--------------------|-----------|
| SELFR 920 & SELFSR 920 | approx. 3 liters | 40 mm |
| SELFR 1200 & SELFSR 1200 | approx. 3 liters | 40 mm |
| SELFR 1400 & SELFSR 1400 | approx. 3 liters | 40 mm |
| SELFR 1600 & SELFSR 1600 | approx. 3 liters | 40 mm |
| SELFR 1910 & SELFSR 1910 | approx. 3,5 liters | 32 mm |

9. Refit the angular hose nipple and bleed the system (see. 6.3).

6.3 The hydraulic pump and the gear motor

The hydraulic pump has a S3 “periodic intermittent duty” of 10%. This means that the pump in total is allowed to operate 1 minute for a period of 10 minutes.

NOTE! If the pump operates more than 10%, the motor will be damaged due to superheating.

Bleeding the hydraulic system

With a load of 50-100 kg, the forks must be raised and lowered to top and bottom position 2-3 times.

6.0 Long live the Rotator

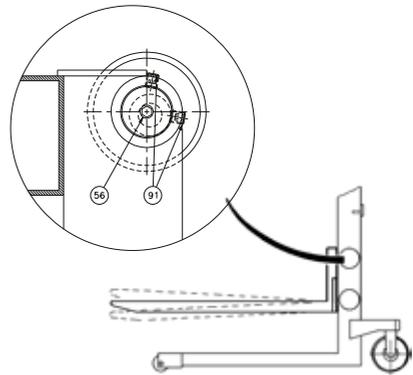
Gear motor of Rotator

The gear motor has a "short time under constant load" of 10 minutes (S2=10 minutes). This means that the motor is allowed to operate with the maximum load for 10 minutes. Hereafter it has to be cooled down to normal temperature.

NOTE! The motor will be damaged by superheating, if it operates for a longer time or if it is not cooled down.

6.4 Fork adjustment

1. Two of the rollers on the fork bracket are mounted on eccentric pins, so that they can be adjusted. The adjustable rollers are at the top.
2. Loosen screw (pos. 91) (key width 5 mm).
3. Eccentric pins (pos. 56) (key width 8 mm) can now be turned to give the necessary fork adjustment.
4. Adjustment must be made on both sides to ensure uniform loading of the rollers.



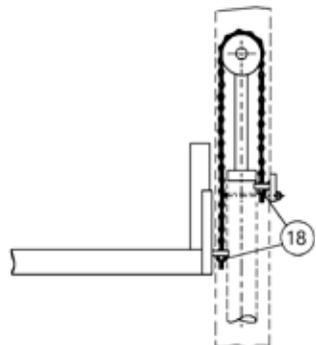
6.5 Adjustment of lifting chain

The chains shall be adjusted so that:

- They lift equally
- They are equally tight
- The lifting movement has to stop in the cylinder, before the mast rolls touch the top stop.

After adjusting, please check:

- a. Fork bracket: the forks have to be placed above the wheels
- b. Adjustable carriage: the forks are to be kept clear of the floor

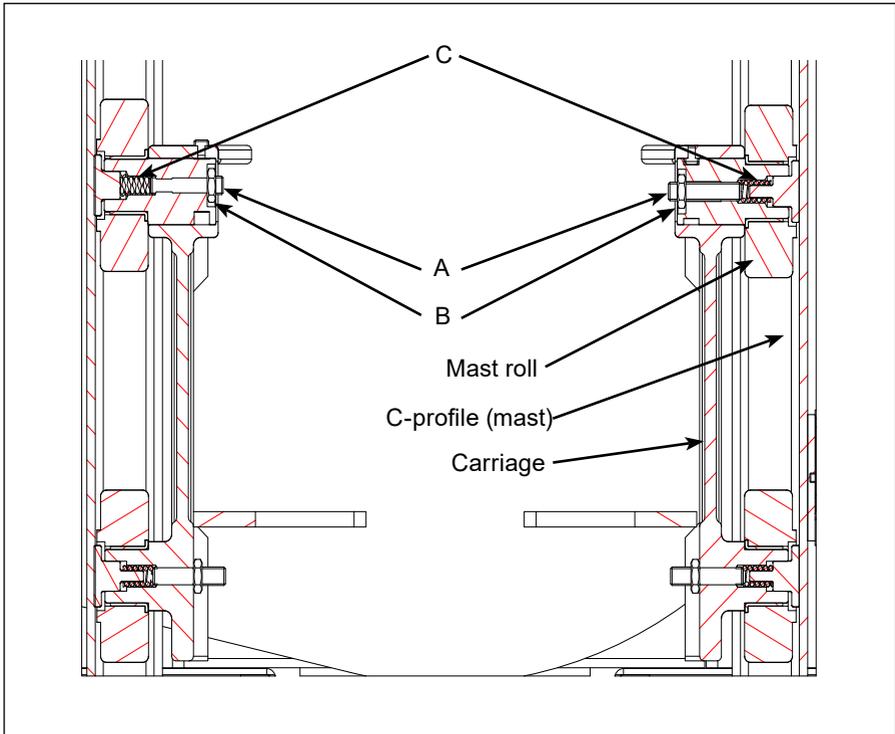


The nuts (pos. 18) are to be adjusted (nut M12, key width 19 mm).

6.0 Long live the Rotator

6.6 Adjustment of side play

1. Screw (A) is loosened counter-clockwise, until resistance disappears.
2. Turn the screw clockwise, until resistance appears. The following 1.5 to 2.5 turns of the screw will be a tightening of the spring (C).
3. When a larger resistance appears, make 0.25 turn counter-clockwise, and the counter nut (B) will be tightened.
4. Pump the forks to its top position, and when lowering it has to slide to the bottom. If this is not the case, loosen screw A, make ca. 0.5 turn counter-clockwise and repeat point 4.



6.0 Long live the Rotator

6.7 Adjusting the Rotator

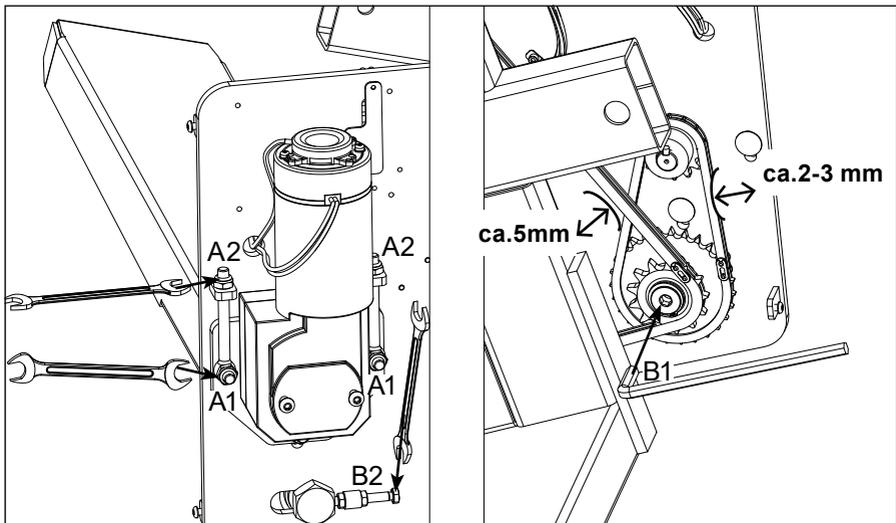
Tensioning the chains

When the unloaded forks can be tilted manually approx. 5 cm, the chains should be tensioned.

This is done by:

1. Removing the covers from the rotator carriage and the gear motor.
2. Loosening the gear motor (A1)
3. Loosening chain wheel (B1)
4. Turning the nut (B2), so that the fork chain is tensioned, until the slack is about 5 mm.
5. Tightening the chain wheel (B1)
6. Tightening the nuts for the gear motor (A2), so that the chain is tensioned, until the slack is about 2-3 mm. Tighten the nuts (A1) again.
7. Replace the covers.

NOTE! Check that the fork chain is tightened correctly in the whole rotation area after adjusting the chains.



6.0 Long live the Rotator

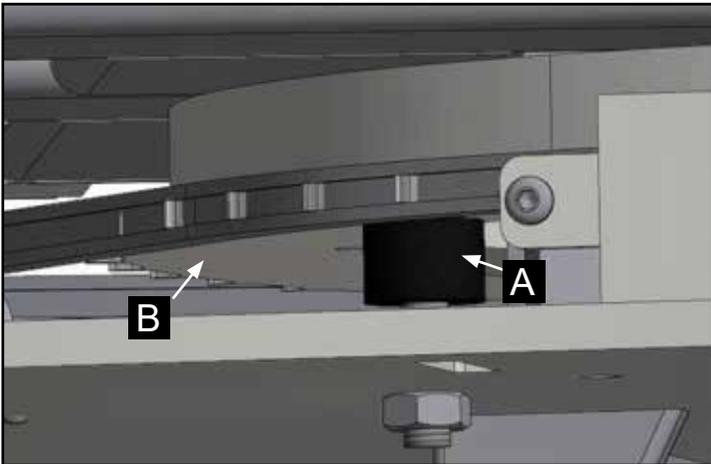
Lubrication

Support block

To support the thrust ring, two support blocks (A) are placed behind the ring. The blocks have to press on the ring, and the back of the ring (B) has to be lubricated with grease, so that the blocks slide smoothly.

Chains

The chains of the Rotator have to be lubricated with grease twice a year.



6.8 Claning



When cleaning the Rotator, do not direct the jet onto bearings and seals. Otherwise the grease will be washed out and the life of the equipment shortened. Avoid spraying directly with liquids on the handle and other electrical components.

Cleaning of the plastic screen (polycarbonate)

The screen is to be washed with slightly warm water added a neutral cleaning material, and afterwards washed with clean water.

Use a soft sponge, a woollen cloth or a wash leather.



Never use sharp objects or solvent cleaners when cleaning.



7.0 Fault codes/Fault location key

7.1 Fault codes - Battery info display

| Code | Description | Solution |
|-------------|--|-------------------------------|
| 17 23 | Battery voltage too low Power supply is missing | Charge battery Check fuses |
| 16 22 | Controller overheated | Contact the dealer |
| 39 | Error main relais | Contact the dealer |

For other error codes, contact your dealer.

7.0 Fault codes/Fault location key

7.2 Fault location key

When the Rotator is used every day, adjustments and the replacement of worn parts might be necessary.

Adjustments and minor repair can easily be made on the spot. Major repairs should, however, be carried through by the dealer who has a well-trained staff and the necessary special tools.



**Before asking the dealer for assistance...
...try the fault location key!**

SYMPTOMS AND OBSERVATIONS

- A** Pump does not run when the UP button is pressed _____
- B** Truck does not lift when the UP button is pressed _____
- C** Truck does not lift to max. height _____
- D** Forks fall after being raised _____
- E** Forks do not sink when DOWN is pressed _____
- F** Forks cannot be lowered fully _____
- G** Truck is unable to lift the max. load _____
- H** Truck lifts slowly _____
- I** Forks do not lift horizontally _____

Cause

Remedy

| | | |
|----------|--|---------------------------|
| | Oil deficiency | See point 6.1/6.2 |
| | Battery discharged | See separate instruction |
| | Fuse blown 10 Amp or 100 Amp | See point 5.1 |
| | Cables defective | See point 5.2 |
| | Max. load exceeded | See point 4.2 |
| | Air in hydraulic system | See point 6.3 |
| | Pressure relief valve incorrectly adjusted | Contact the dealer |
| | Leakage in hydraulic system Visible oil leakage | Contact the dealer |
| | Fork bracket needs adjustment | See point 6.4/6.5/6.6/6.7 |
| | Solenoid or check valve defective | Contact the dealer |
| | Defective valves in pump | Contact the dealer |
| | Defective solenoid valve | Contact the dealer |
| A | | |
| B | | |
| C | | |
| D | | |
| E | | |
| F | | |
| G | | |
| H | | |
| I | | |

**If the problem cannot be solved
by using the fault location key...**

**...please contact
your dealer!**



8.0 Good service after purchase

8.1 Ordering spare parts

The correct spare parts are obtainable from your dealer.

When ordering, please state:

- Serial number of the product
- Type and width/length of the product
- Spare part no. Please find spare part no. on www.logitrans.com

8.2 Warranty/Compensation

Spare parts delivered during the warranty period will be invoiced. A credit note will be sent immediately after we have received and tested the defective parts and found that the warranty conditions have been met.

8.3 Service and repair

You should be able to make adjustments and perform minor repairs on the spot. However, major repairs should be left to the dealer who has well-trained personnel and the necessary special tools.

8.4 Warranty

The warranty covers material and assembly defects which, subject to inspection by us or our representative, are deemed to be faults or deficiencies that prevent normal use of the parts concerned. Such affected parts shall be sent to your Logitrans dealer carriage paid within the warranty period in force at the time in question, together with a copy of the documentation for the service performed (B0284 - see the back page). The warranty does not cover normal wear and adjustments. The warranty period is based on singleshift working.

The warranty shall no longer apply if:

- the product has been used incorrectly,
- the product is used in environments for which it was not designed,
- the product has been overloaded,
- replacements of parts have been made incorrectly or original parts have not been used and consequential damages have arisen,
- if the product is changed or accessories, not being approved by Logitrans, are used.
- it can not be proved that a qualified technician has performed the service check according to the requirements stated in the instruction manual (see the back page).

8.5 Liability exemption

The manufacturer accepts no responsibility for personal injury or material damage arising from deficiencies, defects or improper usage. The manufacturer accepts no responsibility for lost earnings, operating losses, lost time, lost profits or similar indirect losses incurred by the purchaser or a third party.

Periodic service and safety inspection

Service inspection is required once each year, or at least for every 500 hours of operation.

Safety inspection should be performed by the dealer or other qualified persons at least once each year, unless local regulations state otherwise.

The inspection is to be performed on the basis of form no. B0278, and proved on form no. B0284. Forms and instruction for the inspection are available at your dealer.

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