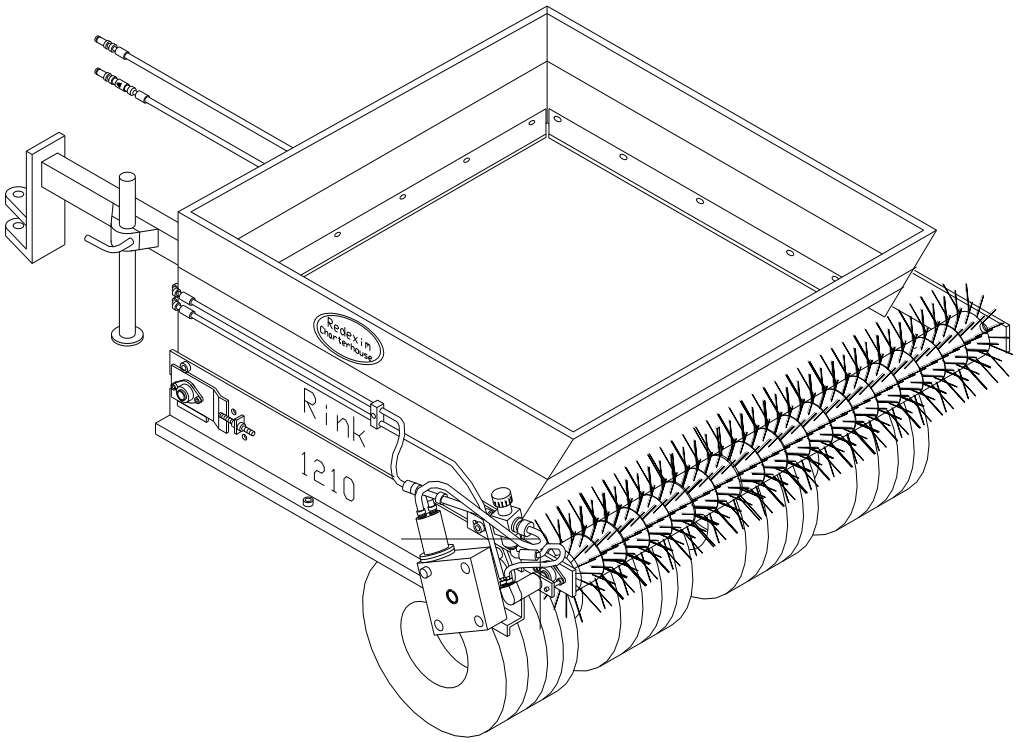
User manual

RINK – Topdresser

Model GS1210

Applies to:
A133.121.000 RINK - Topdresser 1210



Translation of the original user manual

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EC DECLARATION OF CONFORMITY

Certificate of conformity from the manufacturer (or importer) for
RINK Topdresser GS1210

The undersigned

Rink Spezialmaschinen GmbH
88279 Amtzell
Germany

hereby declares that the machine specified below complies with all relevant provisions of the **Machinery Directive (2006/42/EC)**.

1. Machines - Designation:	**RINK Topdresser GS 1210**
2. Manufacturer or importer:	**Rink Spezialmaschinen GmbH** **Alfons-Stübe-Weg 4** **88279 Amtzell**
3. Model:	**GS1210**
4. Machine/serial number:	
5. Year of manufacture:	2024

Amtzell, March 22, 2024

Alexandra Mosmann,
Benedict Klein

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Subject to technical changes.

Equipment marked with a [#] is only available as optional equipment.

SAFETY INSTRUCTIONS

- The **RINK Topdresser GS1210** is designed exclusively for spreading fine-grained, loose materials such as sand, grit, granules, or similar.

- Any other use is considered improper. The manufacturer is not liable for any damage resulting from this; the user bears the sole risk.

- Proper use also includes compliance with the operating, maintenance, and servicing conditions specified by the manufacturer.

- The **RINK Topdresser GS1210** is built according to the latest state of the art and is safe to operate. However, the **RINK Topdresser GS1210** can pose a danger to the life and limbs of the user and other persons if it is not used, maintained, and repaired by persons who are familiar with it and have been instructed in the dangers.

- Every person who is responsible for the operation, maintenance, and repair of the spreader at the user's premises must have read and understood the operating instructions, especially the chapter **on safety regulations**.

- Only use **original spare parts from the manufacturer** for repairs.

- In addition to the information in this operating manual, the generally applicable **safety and accident prevention regulations** must be observed.

- When using public roads, the relevant regulations (StVZO) apply.

- It is not permitted to carry passengers!

- **It is prohibited to enter the loading bridge while the spreader is in operation**. A corresponding notice is affixed to the wheel cover on both sides of the **RINK Topdresser GS1210**. This notice must always be clearly legible and must be replaced if damaged (see Spare Parts).

- The user is **obliged to check** the **RINK Topdresser GS1210 for visible damage and defects** before commissioning. Any changes to the **RINK Topdresser GS1210,** including its operation, that could have a negative impact on safety must be corrected immediately. For safety reasons, it is strictly prohibited to make any changes or additions to the **RINK Topdresser GS1210** (except for changes/additions approved by the manufacturer). If modifications are made to the **RINK Topdresser GS1210**, the CE marking currently applicable to the machine loses its validity and must be renewed independently by the person who made these modifications.

SAFETY INSTRUCTIONS

- The permissible tow vehicle load must be observed.
- Before starting, check the immediate area and ensure sufficient visibility.
- During operation, no one is allowed to stand in the danger zone of the spreader, as there is a risk of injury from rotating parts and flying debris.
- Ensure that you are wearing appropriate clothing. Wear safety shoes and long pants. Long hair must be tied back. Do not wear loose clothing. Use appropriate personal protective equipment in accordance with the applicable occupational health and safety regulations.
- Wear certified hearing protection when working with the machine.



- Adjustment and repair work may only be carried out by authorized specialist personnel. Before carrying out repair work on the hydraulic system, it is essential to depressurize it. Check hydraulic hose lines regularly and replace them if they are damaged or worn. The hydraulic hose lines must meet the technical requirements of the equipment manufacturer.

Waste oil is harmful to the environment; please dispose of it in an environmentally friendly manner.

BRIEF DESCRIPTION

The **RINK Topdresser GS1210** is used for spreading fine-grained, loose materials such as sand, grit, or similar. The spreader mechanism of the top dresser is driven by a gearbox with a hydraulic motor for the conveyor belt and a hydraulic motor for the brush roller. The spreading density or quantity can be determined by the driving speed, the speed of the brush roller, and the conveyor belt speed. The spreading material can thus be precisely metered.

TECHNICAL DATA

Dimensions	**GS1210**
Length	2.40 m
Width	2.03 m
Height	1.10 m
Bridge size	1.15 x 1.75 m at top
	1.03 x 1.75 m below
Load capacity	max. 1.0 m³
Weights	
Permissible total weight	1700 kg
Permissible axle load	1300 kg
Permissible support load	400 kg
Net weight	approx. 370 kg
Tires	4 x Garden Slick 18 x 9.50-8
Tire pressure	1.70 bar
Permissible maximum speed	25 km/h
Tractor power	min. 20 kW (25 hp)
Spreading width	1.80 m
Spreading quantity	continuously adjustable
Hydraulic connection values	
Minimum flow rate of towing vehicle	20 l/min
Minimum pressure of towing vehicle	70 bar

The type plate is located on the front right of the spreader.

INITIAL COMMISSIONING

- Tighten the wheel nuts.
- Check wheel hub play and adjust, if necessary.
- Check the tire pressure.
- The **RINK Topdresser GS1210** must not be used on public roads.
- Check the lighting system.



Check these points again after the first load test!

OPERATION

Connecting and disconnecting

- Connect the **RINK Topdresser GS1210** to the towing vehicle.
- Establish hydraulic connection: pressure line at the bottom, return line at the top. Oil circulation is required. The hydraulic system is filled with Plantosyn 3268 ECO hydraulic oil at the factory.
- **For external oil supply#** (see page 15) Attach the plug-in pump to the tractor's PTO shaft and secure it against twisting using the attached torque support. The PTO shaft may only be switched on at idle speed, as switching on the PTO shaft under load can lead to breakage of the gearbox-pump connecting pinion. To ensure optimum operation, the PTO shaft speed should be approx. 450 rpm, which corresponds to 25 l/min. The oil temperature at the start of work should be approx. 25 °C (viewing glass on the oil tank); if necessary, allow the hydraulic system to warm up. An insufficient PTO speed or oil temperature will impair the spreading performance. Check the oil level in the hydraulic tank (viewing glass center) before starting work. The hydraulic system is filled with **Plantosyn 3268 ECO** hydraulic oil at the factory. An insufficient amount of oil can damage or destroy the hydraulic pump.
- Plug the seven-pin connector (lighting system) into the towing vehicle.
- Crank up the support wheel, lifting the safety flap.



Lay the hydraulic hoses so that they do not drag on the ground or rub against the towing vehicle.

Disconnect in reverse order!



Before disconnecting, depressurize the hydraulics on the towing vehicle.

Before each use

- Check the **RINK Topdresser GS1210** for any visible damage and repair it.
- Check the tire pressure.
- Check the lighting system.
- Check the track of the conveyor belt and readjust, if necessary. The conveyor belt must not rub against the side.

Loading

- Observe the desired maximum ground pressure (see Technical Data).
- Observe the permissible total weight when loading.
- Ensure that the load is evenly distributed.

SPREADING

Control knob

The brush roller speed can be regulated by the tractor speed.

- Control knob (1) for adjusting the speed of the conveyor belt, scale division 0 to 10.

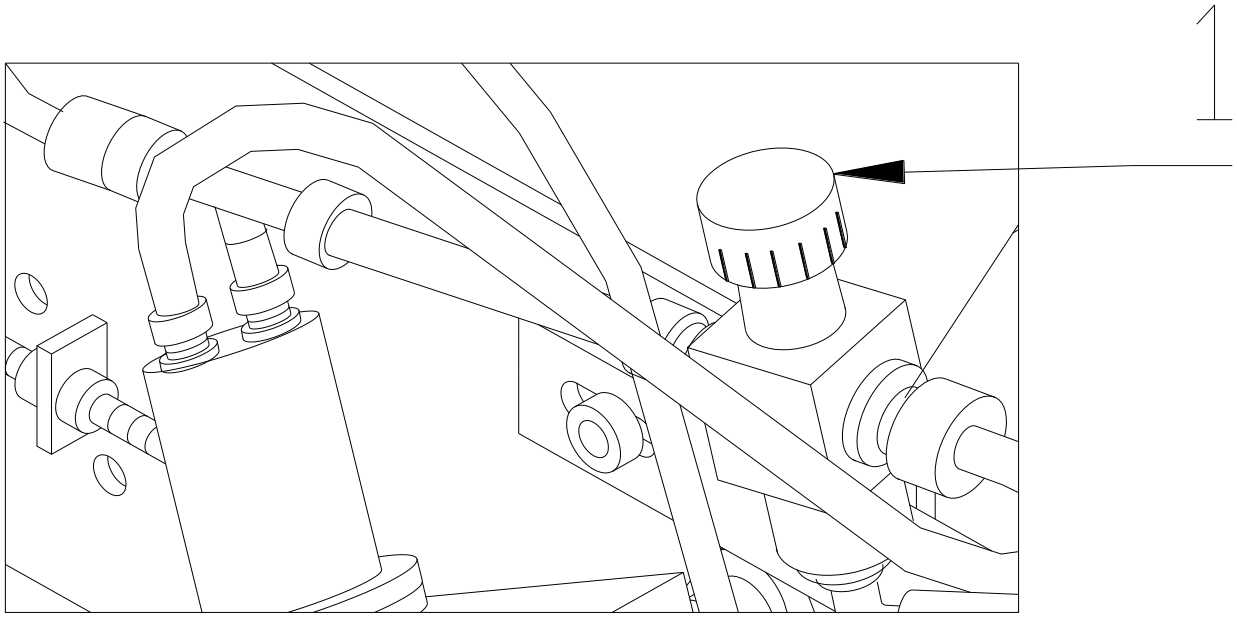


Fig. 1: Control knob

Adjusting the spreading thickness

The spreading thickness depends on:

- the speed of the towing vehicle
- the speed of the brush roller (tractor speed)
- the speed of the conveyor belt control knob (1)

CARE and MAINTENANCE

Lubricate bearings with multi-purpose grease (every 50 operating hours)

(1) Bearings on both sides of the brush roller

(2) Bearings on both sides of the rear conveyor shaft

(3) Bearings on both sides of the front conveyor shaft

(4) Bearings on both running axles

Bearings without grease nipples are maintenance-free.

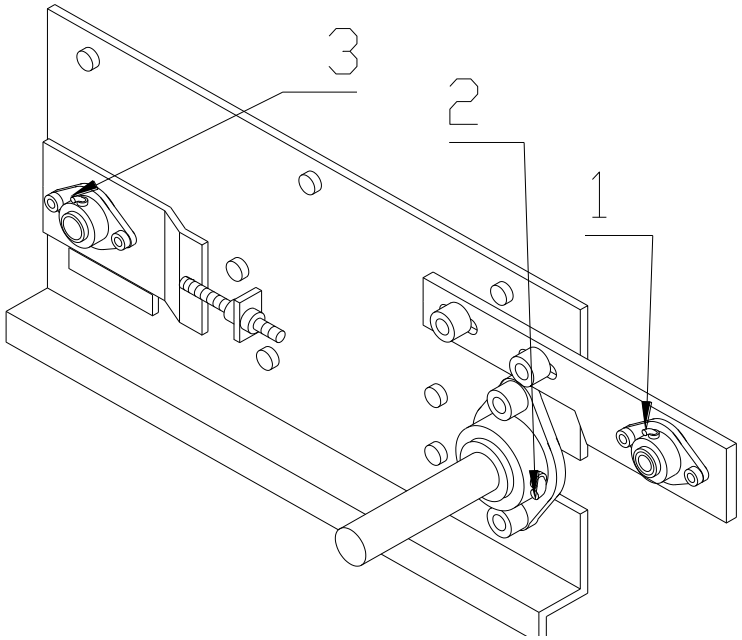


Fig. 2: Lubrication points on the brush roller and transport shafts

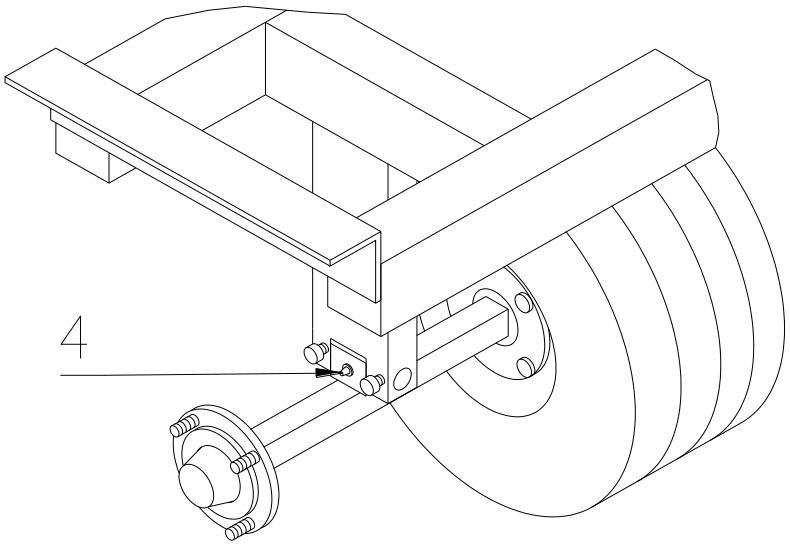


Fig. 3: Lubrication points on the running axle

Oil change on the conveyor belt drive (every 100 operating hours)

- Unscrew the filler plug (1).
- Loosen the drain plug (2) on the inside at the bottom and drain the oil.
- Screw the drain plug back in.
- Fill with 0.6 liters of **SAE85-W140** gear oil.
- Screw the filler plug back in with a new seal.

Used oil is harmful to the environment; please dispose of it in an environmentally friendly manner.

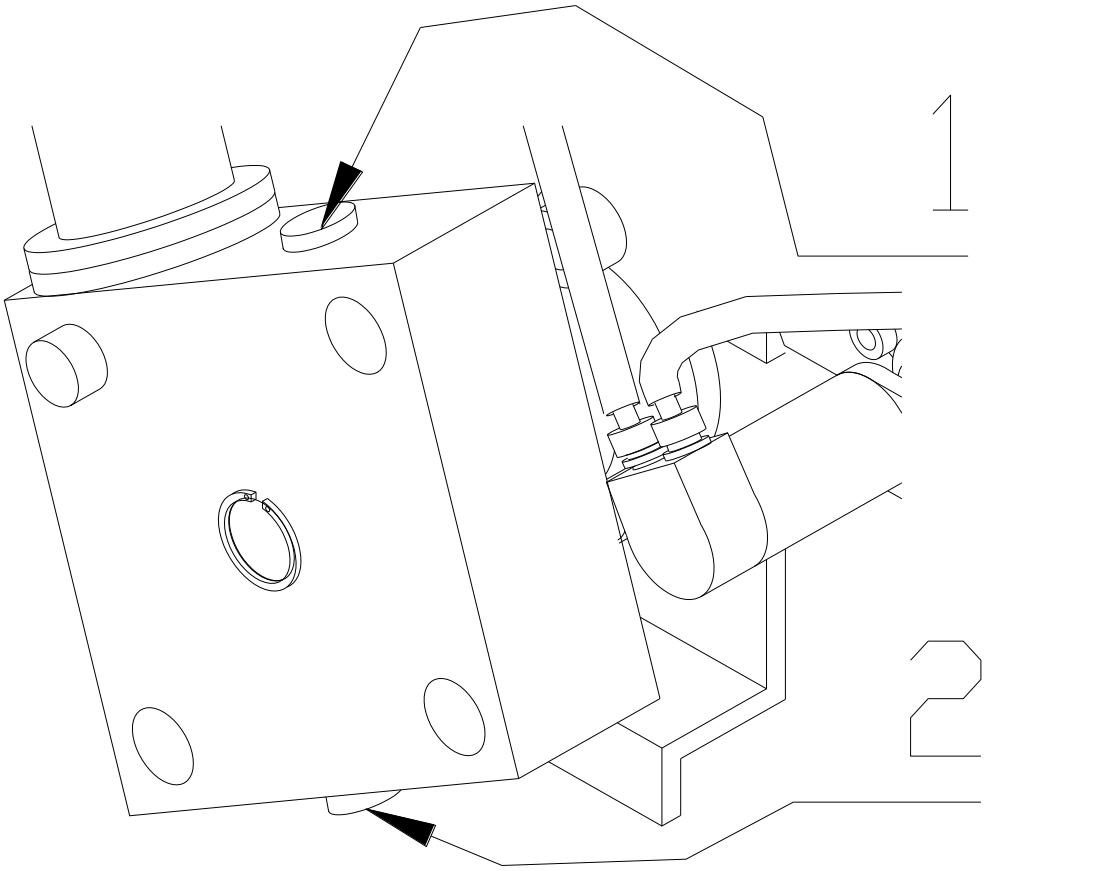


Fig. 4: Conveyor belt gearbox

Maintain the axle (every 100 operating hours)

Maintenance work on the axle may only be carried out by authorized specialist personnel.

- Tighten the wheel nuts.
- Check wheel hub play and adjust, if necessary.

Adjust the brush roller clearance (as required)

- Loosen the screws (1) on both sides of the spreader.
- Move the brush roller until it lightly touches the conveyor belt.
- Tighten the screws (1) again.

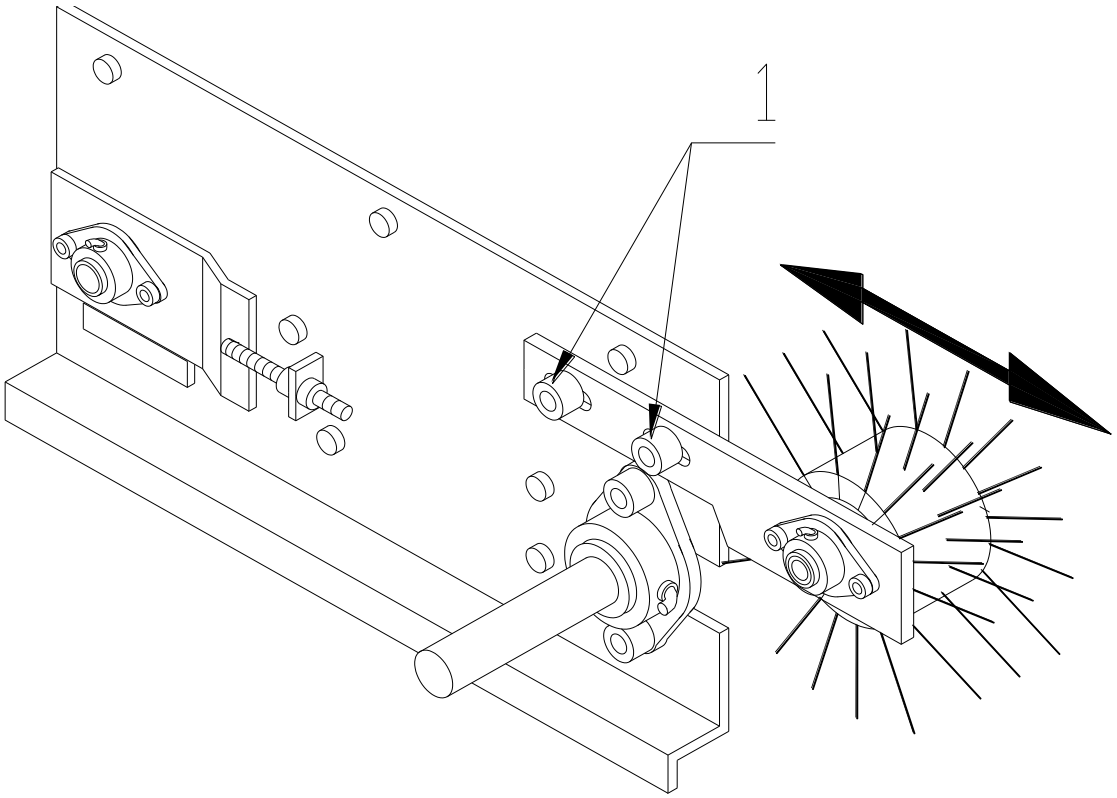


Fig. 5: Brush roller

Tension the conveyor belt (in case of slippage)

- Loosen the lock nut (1) on both sides of the spreader.
- Tighten the nut (2) evenly on both sides, clockwise, ½ turn at a time, step by step.
- Retighten the lock nut (1) on both sides.
- Check whether the fault has been rectified. Repeat the tensioning process, if necessary.

Excessive tensioning shortens the service life of the conveyor belt!

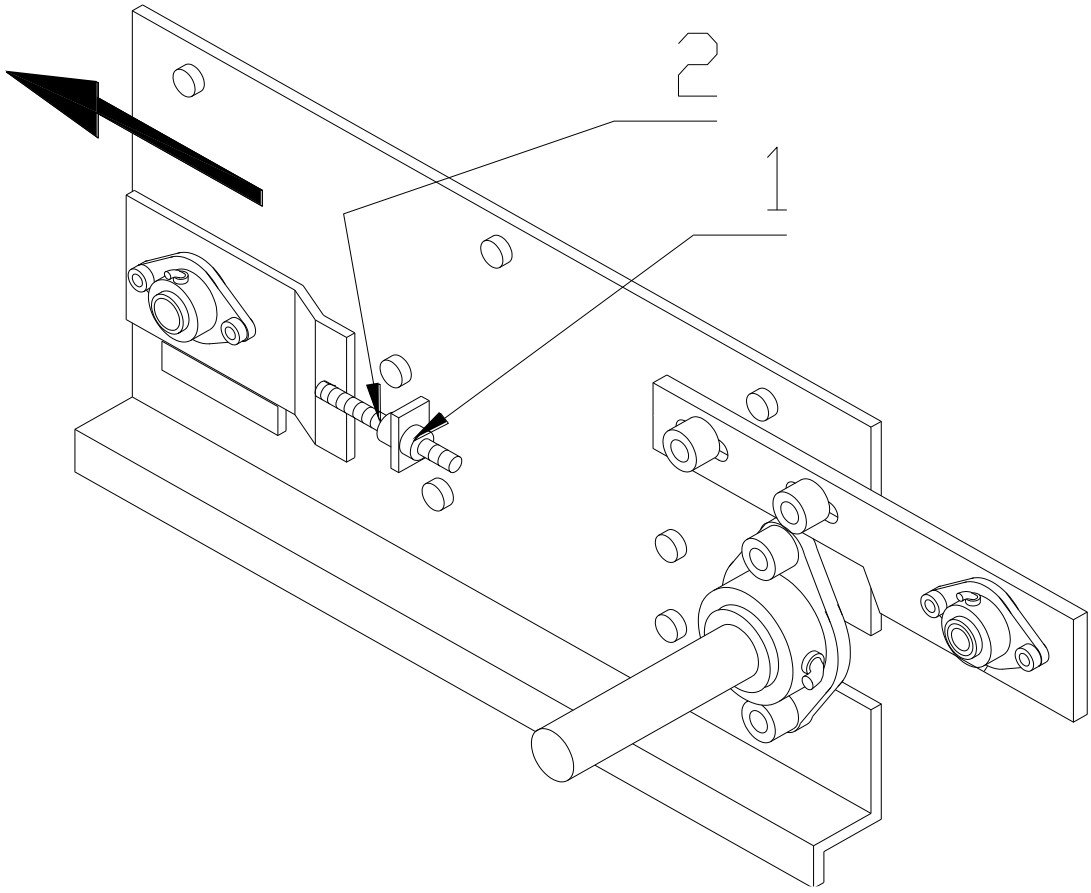


Fig. 6: Tensioning the conveyor belt

Remove and install the conveyor belt

- Loosen the screws (1) on both sides and remove the chassis.
- Remove the brush roller by loosening the screws (2).
- Release tension on the conveyor belt on both sides (3).
- Remove the bearing on the right in the direction of travel (4).
- Remove the side panel (5) with the tension bearing (6).
- Remove the conveyor belt.

Installation is carried out in reverse order.

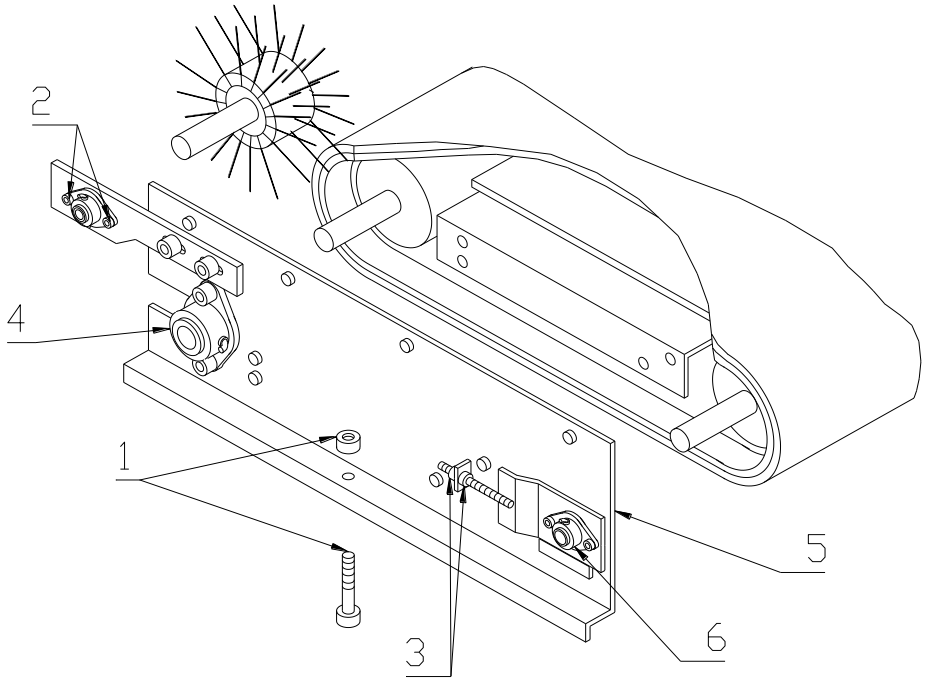


Fig. 7: Installing and removing the conveyor belt

Tension the conveyor belt after installation

- With the conveyor belt in a relaxed state, mark a length of 1000 mm on both sides of the conveyor belt.
- Tension the conveyor belt evenly on both sides using the two tensioning screws (see page 13) until the marked length is stretched to a maximum of 1003 mm.
- Allow the conveyor belt to run in for approx. 30 minutes until it runs centrally between the side guides. Readjust, if necessary.

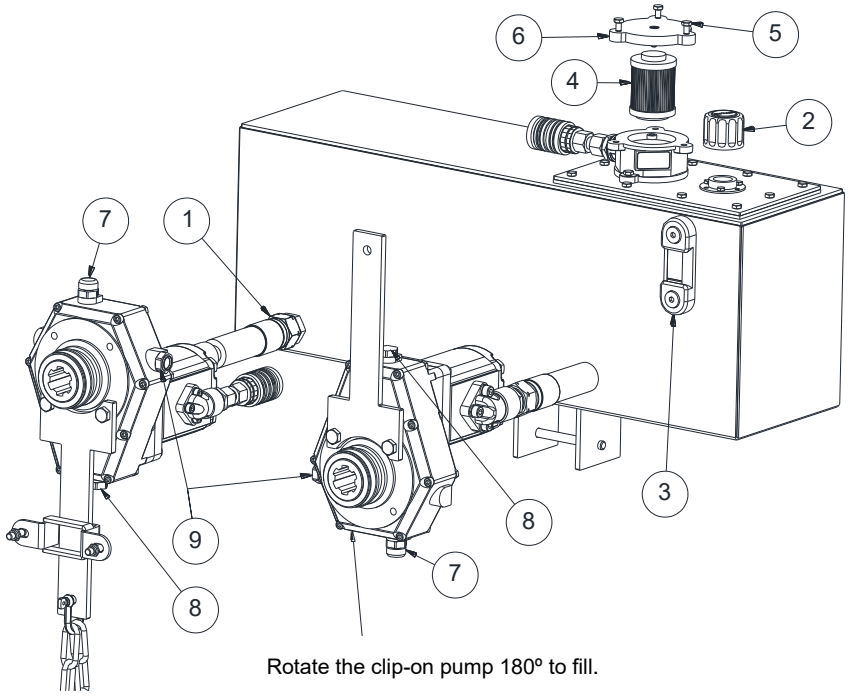
The conveyor belt must not rub against the sides, as this will damage it. When readjusting the conveyor belt, gradually re-tension it on the side where it is rubbing.

Excessive tension shortens the service life of the conveyor belt!

External oil supply

Oil change on the slip-on pump (every 100 operating hours)

- Unscrew the vent screw (7).
- Loosen the drain screw (8) at the bottom and drain the oil.
- Screw the vent screw (7) back in with a new seal. **Order no.: 10779**
- Rotate the slip-on pump 180 degrees. Replace the seal on the sight glass (9) **Order no.: 10779**
- Fill **SAE85-W140** oil into the drain opening (8) up to the level of the sight glass (9).
- Screw the drain screw (8) back in with a new seal. **Order no.: 10779**



Rotate the clip-on pump 180º to fill.

Fig. 8: External oil supply

Oil change on the hydraulic tank (as required)

- Loosen the suction hose (1) and drain the oil.
- Screw the suction hose (1) back on.
- Remove the cap (2) from the filler filter.
- Fill with **Plantosyn 3268 ECO** up to the center of the sight glass (3).
- Close the cap (2).

Filter change on the hydraulic tank (when changing the oil or as required)

- Remove the cover (6) by loosening the screws (5).
- Replace the filter insert (4). **Order no.: 10722**
- Reattach the cover (6) with screws (5).

This is a closed hydraulic circuit. However, to prevent a possible contamination, the return filter (4) must be replaced every 100 operating hours.

Used oil is harmful to the environment; please dispose of it in an environmentally friendly manner.