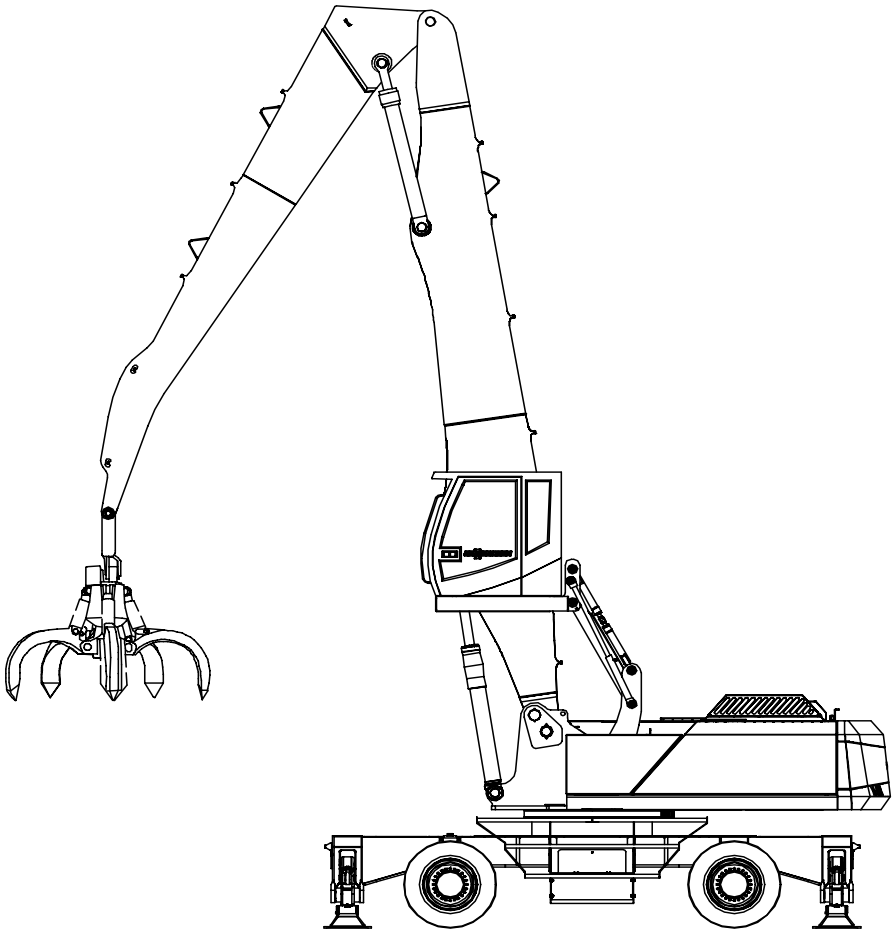
Maintenance instructions

850 M



Noise protection

The permanent sound pressure level of the machine, measured from the driver's seat with the driver's cab closed, is approximately 80 dB(A). The wearing of ear protection is therefore not essential. The measurements are carried out according to EN ISO 11201.

This value of 85 dB(A) can however be exceeded due to environmental influences, e.g. through dropping or transporting material or on a building site together with other machines.
In these cases, ear protection measures are strictly specified for the operating personnel.

The employer is to ensure that appropriate ear protection is available and used by the operators.

Technical condition of the machine

The employer has an ongoing responsibility to monitor the overall technical condition (obvious external faults and damage as well as changes to operational behaviour) of the machine.
Do *not operate machine* if a fault has been detected!
Observe mandatory time limits for routine checks.

Independent conversion and replacement part production

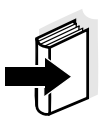
For safety reasons the machine may not be modified or altered in any way.
This applies also to the installation and use of safety devices and valves as well as welding on load carrying parts.

Genuine Sennebogen replacement parts and accessories ensure the safety of personnel. Parts and fittings from other manufacturers are not tested by Sennebogen and are not therefore approved. The use of other components can alter the machine's characteristics and present a safety hazard.

If other components are used, Sennebogen will not be considered liable for any resulting consequences.

Impermissible operating practices

- The operating safety of the machine is only ensured if it is used according to these instructions.
- If there is a danger of heavy objects falling, the machine may only be used if the driver's area is covered by a protective roof (FOPS). The protective roof is optionally available from Sennebogen.
- The machine is not suitable for towing a trailer.
  Due to the greater axle load, trailer operation is only permitted with stronger axles (optional).



Note
The performance data listed in chapter 3 TECHNICAL DATA of the instructions must not be exceeded.

3.3 Coolant – Drive motor

Note
Only use these coolants specified by the following companies:

- BASF Type Glysantin G 05 or
- Valvoline Type Zerex G 05 .

SENNEBOGEN will accept no responsibility and will provide no warranty or make any guarantees for the use of any other coolants.

WARNING

Mixing coolants and adding cooling system additives or antifreeze that contains sealing additives is not permitted.
Filling or mixing with different coolants or additives may cause the motor to overheat or the cooling system to fail thereby causing damage to the engine because e.g. the mixed coolants can silt-up or gellify.

SENNEBOGEN uses BASF Type Glysantin G 05. coolant, good to -37 °C (-34 °F) in the factory.

Note
Observe the coolant label.

If the temperature at the site lies under these values, discuss this with SENNEBOGEN customer services before starting operation.

WARNING

- Never fill with coolant when the motor is overheated. This will cause damage to the motor. Allow the motor to cool first.
- Only fill the cooling system with
  - BASF Type Glysantin G 05 or
  - Valvoline Type Zerex G 05 .

Note
Observe the recommended mixing ratio (see manufacturer's specifications).

Draining water

1	Close shut-off valve (3).
2	Open quick clamp (1).
3	Remove water and dirt from the casing (2).
4	Close quick clamp (1).
5	Open shut-off valve (3).

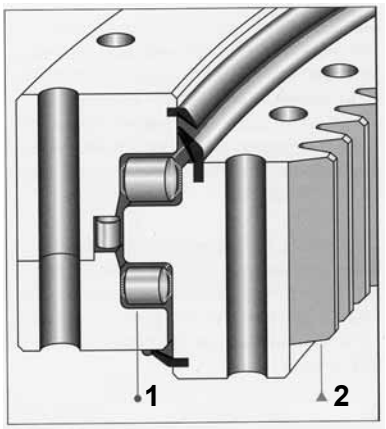
Changing the filter element

1	Close shut-off valve (3).
2	Remove filter element (4).
3	Insert new filter element.
4	Check cover seal, exchange if necessary.
5	Open shut-off valve (3).

6 Swivelling connection

Ensure that the swivelling connection is well lubricated.

- Path (1):
  - via central lubrication system.
- Gear teeth (2):
  - with gear teeth spray or
  - via slewing ring lubrication (optional).



1 Path

2 Gear teeth

7.3 Hydraulic lines

Storage and duration of use

Even when used correctly at permissible loads, hoses and hose lines are subject to natural wear and tear. Their service life is therefore limited.

The operator is responsible for ensuring that hose lines are replaced at suitable intervals, even when there are no obvious defects to be seen in the hose line.

Hose lines must be replaced at least every six years, including a maximum of two years storage time, where applicable.

Check

Hose lines should be inspected by a specialist technician at least once a year to ensure that they are functioning correctly.

Remedy any defects discovered immediately.

Defects

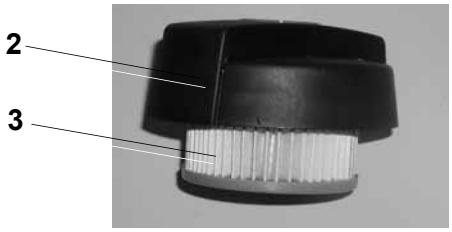
Replace hose lines in the following cases (see also DIN 20066):

- Outer layer damaged as far as reinforcement (e.g. abrasion points, cuts, cracks);
- Outer layer brittle (cracks appearing in hose material);
- Deformation, which does not conform to the natural shape of the hose or hose line, both when under and not under pressure, or when bent (e.g. layer separation, bubbles forming);
- Leaks;
- Hose fittings damaged or deformed (sealing function affected);
- Hose has separated from fittings;
- Corrosion of fittings which reduces function and strength;
- Installation requirements ignored;
- Storage times and/or service life exceeded.

7.10 Changing ventilation filter

Note
The ventilation filter is integrated in the screw cap (2) of the filler strainer. The ventilation filter limits the over-pressure and under-pressure in the hydraulic system occurring during hydraulic operations.

CAUTION
Dirty ventilation filters let dust and dirt unfiltered into the hydraulic system. This can cause damage to the hydraulic system (e.g. to the pumps) and increased hydraulic oil wear.



1	Lift cover (1).
2	Open screw cap (2) of hydraulic tank.
3	Remove filter element (3) from the screw cap (2).
4	Dispose of screw cap (3) as hazardous waste.
5	Place new filter element (3) onto the screw cap (2).
6	Screw on screw cap (2) with new ventilation filter (3).
7	Re-close cover (1).