

# Operator's manual



**Salt and sand spreader  
City Ranger 3070**

# Introduction

**Dear Customer,**

## **Congratulations with your new Egholm product**

The City Ranger 3070 is a Danish designed and manufactured product, which offers a very flexible way of maintaining outdoor areas.

## **Optimal use of your City Ranger 3070 Salt and sand spreader**

To ensure optimal performance of your City Ranger 3070 Salt and sand spreader, please read this manual carefully before using the machine. Failure to do so can result in personal injury and damage to the machine.

## **Safety**

The Salt and sand spreader is equipped with various devices to ensure optimal operational safety, both for the user and the surroundings. We ask you to pay particular attention to section 1.1 Safety. The machine must only be serviced by professionals.

The Salt and sand spreader is designed only for use by professionals. On delivery, the user will receive thorough training to become a competent operator.

Do not lend the machine to anyone who has not been thoroughly trained and has not read this manual carefully.

The operator's manual should be considered as a permanent part of the machine and must remain with it if the machine is sold.

## **Warnings**

Some items in this operator's manual are marked with this warning symbol. The warning indicates areas where extra care has to be taken to avoid personal injury or damage to the machine and its accessories. The warning also shows what you should pay special attention to.



## **Reservations**

As it is the Egholm policy to make continuous improvements, we reserve the right to alter the machine specifications and equipment at any time without notice. Egholm accepts no liability for errors or omissions in the operator's manual.

## **Contact us**

Should you have questions of any kind regarding your Egholm product, do not hesitate to contact Egholm.

Best regards

Egholm A/S · Transportvej 27 · DK-7620 Lemvig

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## **Egholm app - easy access to useful material**

Download our Egholm app, enter the serial number of your machine and possibly add attachments, and get access to videos, manuals, technical specifications and much more.

If you agree to receive notifications, you will be notified about product and service information, offers etc. The app is available for Apple and Android mobile phones.

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The Egholm Salt and sand spreader is a sturdy machine that keeps slippery paths out of your way!

The Salt and sand spreader is made of robust components. The spreader plate is extremely hard wearing and can handle salt, sand and gravel of 8 mm.

The Salt and sand spreader ensures precise and uniform spreading – and even thawing of the ground, for example cycle paths, pavements or parking areas. It is manually set, depending on weather conditions and driving speed, spreading only the sand and salt that is needed.

The spreading width can be adjusted from 1–6 m.

The Salt and sand spreader is supplied with a specially-developed stand that makes it very easy for one person to fit or remove the attachment.

## Useful tips

Make sure the snap couplings are clean before attaching, as this protects the hydraulic system. Daily cleaning and maintenance will extend the lifetime of both the machine and the attachment.

# General information

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# General information

## 1.1 Safety



### Avoid roll-overs

Do not drive the machine in a place where it can slide, tip or roll with any attachment. Use the machine on a solid and regular ground. Do not drive on slopes with an incline of more than 5°.

The following situations are known to cause more instability in the machine and care should be taken by the operator to assure safe operation:

- Abrupt steering.
- Manoeuvring with speed, on a slope and/or with weight in a Salt and sand spreader at the rear.
- Manoeuvring the machine on an irregular ground.
- Low tyre pressure. (Picture 2)



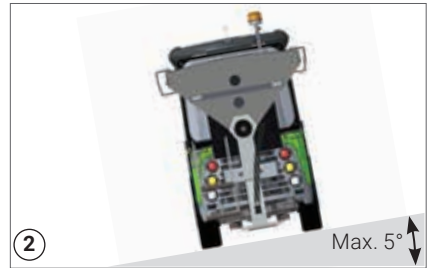
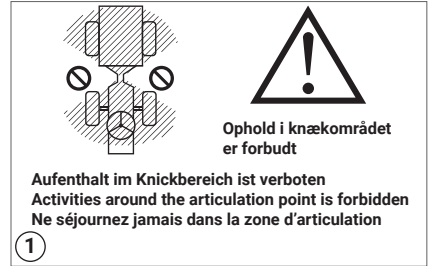
### Assembly/disassembly of attachment

Carry out the assembly or disassembly of an attachment on a flat and stable ground only!



### Avoid standing close to the machine while it is in use

Make sure that no one is near the machine while it is in use as there is a danger of crushing. (Picture 1)



Do not drive on slopes with an incline of more than 5°

# General information

## 1.1 Safety - continued



### **Beacon must be turned on**

While working on public roads, the beacon must be turned on in order to warn the approaching traffic.



### **Danger of flying objects**

During operation, no people or animals are allowed within 5 m around the vehicle.



### **Special driving and steering characteristics of the vehicle**

The vehicle speed must be adapted to the weather and traffic conditions.



### **Risk of crushing in the swivel area**

Maintenance and installation work must be carried out when the machine is stationary and the hydraulic system is not under pressure.



### **Risk of infection and/or injury from escaping hydraulic oil**

Hydraulic oil can cause skin rashes and other health problems. Even a fine stream of oil can penetrate the skin and cause serious injury. In this case, consult a doctor immediately.

The hydraulics should only be connected when the vehicle is stationary and the hydraulic system is not under pressure and the engine is shut off.



### **Avoid eye injuries**

Wear eye protection when checking the spreading width of the spreader plate.



### **Destruction of the hydraulic hoses by pinching or rubbing against the structural parts**

When connecting the hydraulic hoses, make sure their installation is kink and abrasion free.

## 1.1 Safety - continued

In addition to these operating instructions, the generally applicable and specific local regulations concerning accident prevention and environmental protection, as well as the accident prevention regulations of the Agricultural Trade Association must be followed.

The machine must be checked before each use for any visible damage and the functioning of its safety devices.

Unauthorized modifications to the machine and its safety devices are prohibited and exclude any liability of the manufacturer.

Bypassing or otherwise disabling the safety devices is prohibited.

All general safety instructions and warnings on the machine must be kept in a legible condition.

When the Salt and sand spreader is fitted, this operator's manual must always be kept in the cab of the machine.

Refer to the operator's manual for the snow removal attachment (Section 1.1 Safety) for safety precautions when using a snow removal attachment.



### **Possible environmental pollution**

- Do not spill any hydraulic oil.
- Take precautions to clean up any spilled hydraulic oil.
- The handling and disposal of hydraulic oils are subject to legal provisions.

Only persons with special knowledge and experience in the field of hydraulics are allowed to operate the hydraulic devices.

Regularly check the hydraulic hoses for leaks. They must be replaced at regular intervals, even if no defects are present. (See the Section 3.1 Service and Maintenance chart in the Operator's manual for the City Ranger 3070 Basic machine).

# General information

## 1.2 EC Declaration of Conformity for Machinery

Manufacturer: **Egholm A/S**  
Address: **Transportvej 27 · DK-7620 Lemvig**  
Telephone: **+45 97 81 12 05**

hereby declares that

The machine: **Salt and sand spreader**  
Type: **30SGAA**


has been manufactured in conformity with the provisions of Machinery Directive 2006/42/EF, and tested against ISO 5395-03.

In accordance with the Danish Working Environment Authority's executive order no. 561 of 24 June 1994 with subsequent amendments.

Any alteration, rebuilding or addition of implements, accessories or other equipment not manufactured by Egholm automatically results in the cancellation of type approval, CE approval, any other approval, as well as any warranty on machine and attachments.

Unless otherwise agreed in writing between the operator, customer and Egholm, Egholm is the data originator (data originator) of all data generated by the machine and attachments during use.

Person authorized to compile the technical documentation:  
Mr. Rainer Flanz  
Egholm A/S  
Transportvej 27 · DK-7620 Lemvig

Place: Lemvig  
Date: \_\_\_\_\_  
Signature:   
Rainer Flanz, R&D Manager



# General information

## 1.3 Technical data

<b>Dimensions</b>	<b>Attached</b>	<b>Storage</b>
Length.....	4.305 mm .....	2.230 mm
Width (Standard/wide-base tyres) .....	1,220/1,285 mm .....	1.110 mm
Height .....	2.000 mm (without beacon) .....	1.060 mm

### **Technical data**

Weight.....	295 kg
Weight - stand for attaching / detaching the spreader.....	87 kg
Weight - Adapter.....	10 kg
Max. allowed payload (Spreader) without attachment on A-frame .....	950 kg
Loading height .....	1.850 mm
Volume .....	600 L
Spreading width.....	1,5-6 m
Material.....	Salt, sand and gravel

### **Options**

Salt Stop plate .....	E50009819
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### **NB**

Specifications may be changed without prior notice.

# Operator's manual

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## 2.1 Adjusting the stand

The stand is, together with an adaptor, used to attach and de-attach the Salt and sand spreader from the Basic machine.



### Attention

The Spreader must be emptied for material before dismounting. If using a forklift, there can be material in the Spreader.



1 Ratchet load carrier open/closed position switch



2 Stand and adaptor



3 Hang up the adaptor on the stand lifting hooks.

# Operator's manual

## 2.2 Assembly

### Unpacking the salt and sand spreader

The salt and sand spreader is packed and delivered on a pallet, and wrapped with plastic (Picture 1)

Unpack the spreader, and install the front cover

Use a forklift to lift the spreader from the pallet (See 2.3 alternative assembly)



#### Attention

Carry out this operation on flat and stable ground only.

### Fitting of the Salt and sand spreader

1. Position the Salt and sand spreader behind the Basic machine.

2. Push the Salt and sand spreader in over the Basic machine, or lock the support wheels and reverse the Basic machine in under the Spreader.

3. Turn off the engine.

4. Carefully lower the spreader onto the loading panel by using the ratchet load carrier. The Spreader must not fall directly into the groves. (Picture 3)

Push the Spreader forward, so it slides in the lock grooves. (Picture 4)

5. Connect the hydraulics, using the hydraulic lock handle. (Picture 5)



1



2

Salt and sand spreader on the Spreader Frame



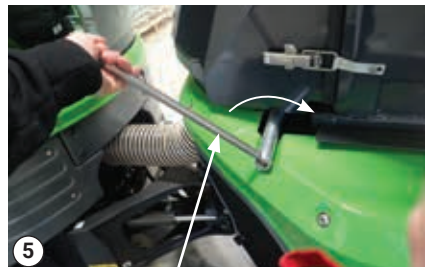
3

Lower the Spreader



4

Pushing the Spreader



5

Locking handle

## 2.3 Alternative Assembly

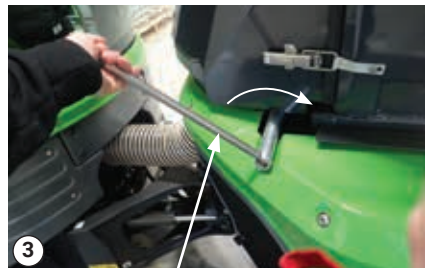
1. By using a forklift you can mount the Spreader on the Basic machine. Here an extra pairs of eyes will be handy. (Picture 1)
2. Align the Spreader over the Basic machine. Lower the Spreader onto the Basic machine. (Picture 1)
3. Push the Spreader forward, so it falls in the lock grooves. The Spreader must not slide directly into the grooves. (Picture 2)
4. Connect the hydraulics, using the hydraulic lock handle. (Picture 3)



Assembly using a forklift



Pushing the Spreader



Locking handle

# Operator's manual

## 2.4 Prepare Disassembly

Swivel the spreading unit up, until it locks.  
(Picture 1-3)

With the spreading unit in upper position, its possible to make a quick emptying of the tank.  
See section 2.7 for quick emptying. (Picture 3)



### Attention

Always stop the engine and shut off the main switch when working on the salt spreader.



To prepare the spreading unit for disassembling, pull out the spreader unit of the lock



Swivel the spreading unit up



Make sure the lock is engaged

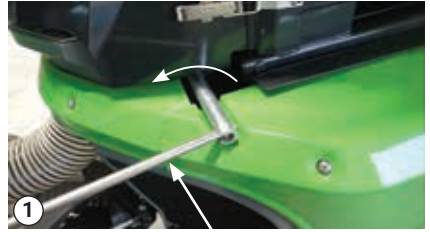
## 2.5 Disassembly



### Attention

The Spreader must be empty when removed using the stand. Carry out this operation on flat and stable ground only. Engine must be turned off.

1. Unlock the hydraulic handle (Picture 1)
2. Attach the adapter on the stand. Place the stand behind the spreader and connect the hooks onto the spreader. (Picture 2+3)
3. Use the ratchet load carrier to lift up the Spreader. (Picture 4)
4. Remove the Spreader from the Basic machine or drive the Basic machine away. (Picture 5)



Unlock the hydraulic handle



Stand behind the spreader



Connect the hooks onto the Spreader



Removing the Spreader or the Basic machine

# Operator's manual

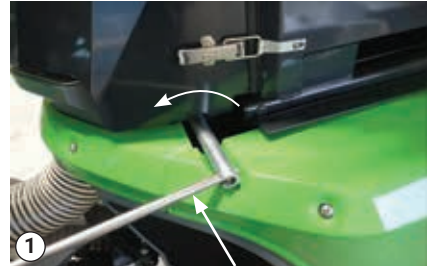
## 2.5 Alternative disassembly



### Attention

Engine must be turned off.

1. Unlock the hydraulic handle (Picture 1)
2. Using a forklift, lift the Spreader away from the Basic machine. (Picture 2+3)



Locking handle



Lifting the Spreader



Lifting the Spreader away from the Basic machine



## 2.6 Important before start up - Prepare Spreader

### Working mode

Lower the spreading unit to working mode.

Flip the locking lever from the Salt and sand spreader. (Picture 1)

Swivel the spreading unit down and fix it in the lowered position. (Picture 2+3)

**When the spreading unit is in down position, the step can be used as a ladder.**



Lightly push forward on the spreading unit and release the lock



Push spreader down until it fits in the lock

# Operator's manual

## 2.6 Important before start up - Prepare Spreader - continued



### Attention

Always stop the engine and shut off the main switch when working on the salt spreader.



### Notice

When removing the front shield in workmode, an alarm will appear. Install the shield, to remove the alarm.



### Notice

#### When spreading Gravel

To reduce wear and tear, the stirrer needs to be stopped.

Remove the frontcover and loosen the clutch by pulling it out. (Picture 1)

Remember to engage the clutch if material is changed to sand or salt by pushing it in. (Picture 2)



Clutch disengaged



Clutch engaged

## 2.6 Important before start up - Prepare Spreader - continued

### Salt stop

When spreading vacuum salt or very fine dry sand it is necessary to use a salt stop in the tank to secure the salt stays in the tank when not spreading.

The salt stop is available from Egholm dealers:  
Egholm part no. E50009819.

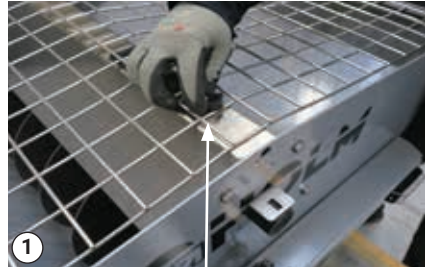


### Warning

Before installing the salt stop make sure the machine is stopped and the main switch is shut off.

### Installing the salt stop

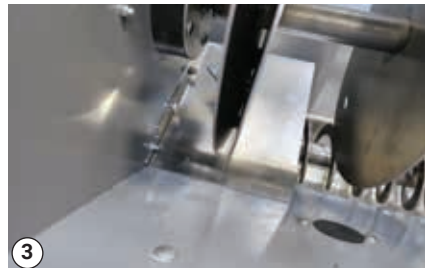
1. Remove the salt spreader top lattice. Loosen bracket in both sides. Its now possible to lift up the lattice and remove it. (Picture 1)
2. Loosen and remove 3 screws at the rear end inside the tank. (Picture 2)
3. Re-mount the 3 screws in the tank together with the salt stop. (Picture 2+3)



Loosen bracket in both ends, and lift up the lattice



Loosen and remove 3 screws, and install the salt stop by sliding it in from the side



Re-mount the 3 screws together with the salt stop

# Operator's manual

## 2.6 Important before start up - Prepare Spreader - continued

### Prepare spreading unit

Adjust the slide guide handle for the right material.

Salt and Sand: Position 1. (Picture 2)

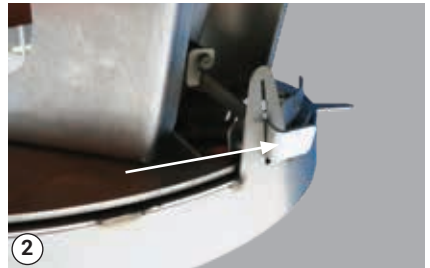
Split and gravel: Position 2. (Picture 3)

If using Position 2 for salt, the result will be more sand and salt in the left side, in the driving direction.

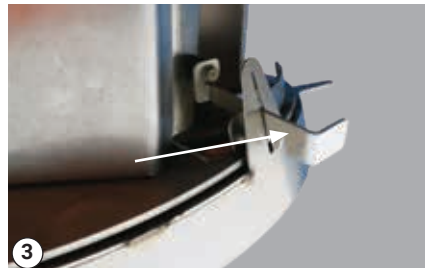
If using Position 1 for Split, the result will be more split in the right side, in the driving direction.



Adjust the slide guide handle for the right material



Adjust the slide guide handle in position 1  
Salt and sand



Adjust the slide guide position 2  
Split and gravel

## 2.6 Important before start up - Prepare Spreader - continued

### Asymmetric spreading

Turn the spreading disk if a Asymmetric spreading pattern is needed.

Lift up the handle. (Picture 1)

Turn the spreading disk to needed position.  
(Picture 2)



Adjust the handle to asymmetric spreading



Asymmetric spreading

# Operator's manual

## 2.6 Important before start up - Prepare Spreader - continued

### Cover



#### Attention

When parked outside or transported, use the cover to protect the spreading material in the tank against moisture! (Picture 1)



#### Spreading material

- Must not be frozen;
- Must not contain stones larger than 15 mm (hazard of flying stones);
- Must be free-flowing; its grain size should be from 2 to 8 mm.



Cover

## 2.7 Start-up



### Warning!

Make sure no one is standing close to the machine when it is in use.



### N.B!

When turning, the rear of the machine swings out, so there is a risk of crushing or collision.



### Avoid accidents at the rear of the salt and sand spreader

Keep fingers and feet well away from the rotating spreader plate.

1. Start the machine.
2. Select winter attachments. (Picture 1)
3. Select Salt and sand spreader in "Selection menu". If required select one of the other front attachments. (Picture 2)
4. Make sure nobody is near the machine
5. To start the Salt and sand spreader push and hold WM button for minimum 3 sec. (Picture 3)

To disable work hydraulics, press the WM button briefly. To disable Work Mode completely, press the button for 2 seconds.



①

Select winter attachments



②

Select Salt and sand spreader



③

WM button

# Operator's manual

## 2.7 Start-up - continued

6. Now the following functionalities can be adjusted:

- a. Activate / deactivate diffuser, starting at 1 km. Press 2 seconds (orange), spreads at 0 km, can not be used with speed-dependent travel (f.)
- b. Adjust the spreading width / disk speed.
- c. Adjust the amount / auger speed.
- d. Adjust the engine rpm.
- e. Function for quick emptying the container.
- f. Enable / disable speed-dependent spreading. The set spread rate is at max speed in that speed mode.
- g. If the tank is empty, an "Empty" text will flash. (Picture 1)

7. To adjust these three bars, rotate the encoder. To activate the bar, press down the encoder. When the frame gets green, rotate the encoder to adjust. (Picture 2)

8. If the stirrer or auger in the tank gets blocked, a warning appears after 10 seconds. (Picture 3)

9. After another 10 seconds without action the Salt and sand spreader will stop, and an acoustic alarm will sound. (Picture 3)

10. When removing the screen for the front gears, an alarm will also appear. Install screen to remove the alarm.



①

Adjust work settings to desired level



②

To activate the bar:  
press down the encoder



③

Warning



# Service and maintenance

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# Service and maintenance

## 3.1 Cleaning

Cleaning the Salt and sand spreader:

Daily cleaning and maintenance will extend the lifetime of both the Basic machine and the attachment. It is recommended that the Salt and sand spreader and the Basic machine are cleaned with water immediately after use to remove salt residues and waste in the tank. Avoid high-pressure cleaning of the snap couplings.

Wipe snap couplings clean with a cloth on both Salt spreader and Basic machine. (Picture 1+2)

Remember to clean the Basic machine thoroughly after use.



## 3.2 Maintenance



### Attention

Always stop the engine and shut off the main switch when working on the salt spreader.



### Notice

When removing the front shield in workmode, an alarm will appear. Install the shield, to remove the alarm.



### Attention

Always stop the engine and remove the ignition key during repair and maintenance work! Maintenance and installation work may only be carried out when the Basic machine is turned off and the hydraulic system is not under pressure.



### Important

The steps outlined in this Section should be regarded as a minimum to keep the Salt and sand spreader in good working condition! Depending on the workload, the operator must decide on any additional work necessary.



### Prior to each use

Ensure the appropriate handling and disposal of lubricants!

- Check the hydraulic hoses and couplings for leaks.
- Check the fastening and tension of the tensioning chains.

### Maintenance every 80 working hours



### Important

#### Ensure the appropriate handling and disposal of lubricants

- Clean the spreader.
- Remove the front cover. (Picture 1)
- Check the chains (Picture 2)
- Check the screw connections for tightness.
- Check the hydraulic hoses and couplings for leaks.
- The spreader has no lubricating nipples, all bearings etc. are lifetime lubricated, only the chains need to be lubricated.



Remove the front cover



Check and lubricate the chains

# Service and maintenance

## 3.3 Maintenance and checking of the hydraulics



### **Risk of infection and/or injury from escaping hydraulic oil**

Hydraulic oil can cause skin rashes and other health problems. Even a fine stream of oil can penetrate the skin and cause serious injury. In this case, consult a doctor immediately.

The hydraulics should only be connected when the Basic machine is stationary, the engine is switched off and the hydraulic system is not under pressure.



### **Possible environmental pollution**

Do not spill any hydraulic oil.

Take precautions to clean up any spilled hydraulic oil. Handling and disposal of hydraulic oils are subject to legal provisions.



### **Regular replacement of hydraulic hose lines in accordance with Occupational Safety Regulations BGR 273 Hydraulic. Hoses Rules for Safe Use**

Extract from the Occupational Safety Regulations BGR 237.

“The operator must ensure that hose lines are replaced at suitable intervals, even if no safety related defects in the hose line are visible. The use of the hoses should not exceed six years, including a storage time of maximum two years. Even when adequately stored and subjected to permissible loads, hoses and hose lines are subject to natural ageing, because their storage time and duration of use are limited. Improper storage, mechanical damage and excessive loads are the most common causes of failure.”

Egholm A/S prescribes changing the hydraulic lines of your Basic machine every six years. In addition, they must be annually inspected by a competent person.

## 3.4 Storage

### Storage outside the season

When the Salt and sand spreader is to be stored outside the season, it is recommended to remove any loose paint and to repaint any damaged areas.



#### Caution

When parked outside or transported, use a cover to protect the spreading material against moisture!

Road salt must not be stored in the tank over a long period of time; empty the Salt and sand spreader tank after each use!

# Conditions

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Machines**

## 4.1 Warranty

The warranty period for the materials and manufacture of this Salt and sand spreader is 12 months from the date of purchase.

In the case of errors or defects on the machine within the warranty period, Egholm will carry out the necessary repairs without charge for materials and working hours in accordance with the terms and conditions listed below.

### **The scope of warranty**

1. The Egholm warranty is only valid on presentation of the original receipt, supplied with model description, serial number and date of purchase.
2. Regular checks, adjustments, services and technical alterations are not covered by the warranty.
3. All inquiries concerning the warranty are to be addressed to the distributor, from whom the machine was purchased.
4. This warranty does not cover faults and defects which cannot be traced back to defects in material or production errors.
5. This warranty is valid for persons who have legally acquired the machine within the warranty period.
6. In the event of failure to perform and substantiate service in accordance with the applicable instructions, Egholm reserves the right to reject any claim made within the warranty period.
7. Egholm reserves the right to make improvements and design-related alterations to the machine without being obliged to modify previously delivered models in relation hereto.

### **The warranty does not cover**

- Wear and tear, accidents, damage to the equipment caused by operating errors, negligence, changes to the construction of the machine or use of non-Egholm spare parts or attachments.
- Machines with illegible serial numbers.
- Damage caused by force majeure such as lightning, flood, fire, war, civil disturbance, etc. or other causes over which Egholm has no control.

# Conditions

## 4.2 Complaints

All inquiries regarding the machine should be made at the distributor from whom the machine was purchased. This applies to inquiries concerning normal use, service, maintenance and spare parts, as well as to any complaints.

We wish you many years of safe and satisfied use of your machine.

Best regards  
Egholm A/S

## 4.3 Disposal

When, in many years from now, your Salt and sand spreader has reached the end of its working life, it should be disposed of in a responsible manner that conforms with relevant disposal regulations.

1. Used hydraulic oil is to be disposed of at an approved waste disposal facility or site.
2. Remove all plastic and rubber parts before disposal.
3. After the parts mentioned have been removed, the machine is ready to be handed over to one of your local approved scrap merchants.





# Honest Work.

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