

# Operator's manual



**Snow sweeper  
City Ranger 3070**

# Introduction

## Dear Customer

### **Congratulations with your 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 Snow sweeper**

To ensure the optimal performance of your City Ranger 3070 snow sweeper, please read this operator's manual carefully before starting to use the machine. Failure to do so can result in personal injury and damage to the machine.

### **Safety**

The snow sweeper 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 snow sweeper is designed only for use by professionals. On delivery, the user will receive thorough training to become a competent operator.

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

The operator's manual should be considered a permanent part of the machine and must remain with the machine if 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 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 any questions regarding your Egholm product, do not hesitate to contact Egholm.

Best regards

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

T. +45 97 81 12 05 · F. +45 97 81 12 10

e-mail: info@egholm.dk · www.egholm.eu



### **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.

# Introduction

Indhold	
General information	5
1.1 Safety	5
1.2 EC Declaration of Conformity	8
1.2 EC Declaration of Conformity	8
1.3 Technical data	9
Operator's manual	11
2.1 Assembly/Disassembly	11
2.2 Before start-up	14
2.3 Start-up	14
Service and maintenance	18
3.1 Cleaning	18
3.2 Maintenance	18
Conditions	21
4.1 Warranty	21
4.2 Complaints	22
4.3 Disposal	22
Notes	23

With the snow sweeper fitted to the front of the City Ranger 3070 and salt and sand spreader fitted on the back, the machine sweeps snow while leaving a safe and passable path behind.

The snow sweeper clears snow up to 25 cm deep and follows the terrain perfectly over inclines and other obstacles.

## 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

**Honest  
Machines**

# General information

## 1.1 Safety



### **Make sure no one is 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.



### **Attention**

As it is articulated, the rear end of the machine swings out when turning. Make sure that no one is standing near the machine while it is in use. (Picture 1)



The Snow sweeper swings to the side when the right joystick (blue) is moved left or right. Make sure that no one is standing near the machine while it is in use. (Picture 2)



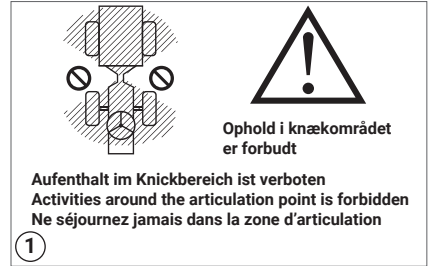
### **Avoid crushing fingers**

Keep your hands and fingers away from areas where there is a danger of crushing.



### **Avoid roll-overs**

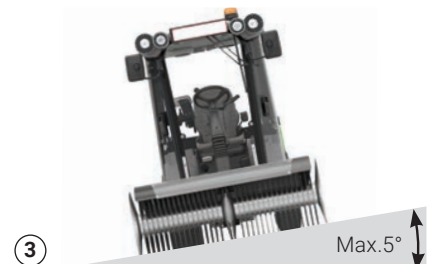
Do not drive the machine in a place where it can slide, tip or roll. Do not drive along slopes with an inclination of more than 5°. (Picture 3)



Prevent people from standing in the working area



Joystick



Do not drive along slopes with an inclination 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.



### **Large front attachment**

The Snow sweeper swivels outwards during strong steering movements.



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

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.



### **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 vehicle and the attachment must be checked before each use for any visible damage and the functioning of its safety devices.

Unauthorized modifications to the attachment 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 Snow sweeper is attached, this operator's manual must always be kept in the cab of the vehicle.



### **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

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

hereby declares that

Machine: **Snow sweeper**  
Type: **30SSAB**


- has been manufactured in conformity with the provisions of the Machinery Directive, Directive 2006/42/EU
- has been manufactured in conformity with the provisions of Directive 2000/14/EU

and in accordance with  
· DS/EN 13019 Machines for road surface cleaning – Safety requirements

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 dimensions</b>
Length (L) .....	4.630 mm .....	1.100 mm
Width (B) .....	1.520 mm .....	1.520 mm
Height / with beacon (H) .....	2000 / 2210.mm .....	750 mm

### **Technical data**

Type description .....	30SSAB
Clearing width .....	1.320 - 1.460 mm
Ground clearance below brush .....	360 mm
Brush diameter .....	600 mm
Weight of Snow sweeper .....	145 kg
Number of brush rings .....	32
Number of skewed brush rings .....	6
Number of spacer rings .....	28
Sweeping capacity approx .....	21.900 m <sup>2</sup> /hour

### **Optional equipment**

Brush guard E56000401.

### **NB**

Specifications may changed without prior notice.

# Operator's manual

**Honest  
Machines**

## 2.1 Assembly/Disassembly

### Unpacking the Snow sweeper

The Snow sweeper is packed and delivered fixed to a pallet wrapped in plastic. (Picture 1)

Remove the plastic.

Unscrew the screws holding the snow brush to the pallet. (Picture 2)

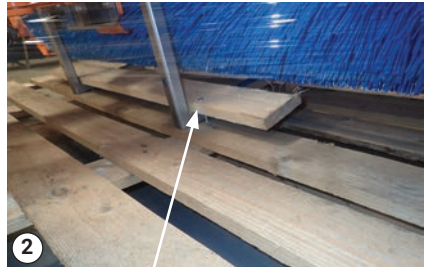
The Snow sweeper lifting point is an eye directly behind the brush.

The lifting eye is marked with a sticker. (Picture 3)

Use a crane or forklift to lift the snow brush from the pallet.



Snow sweeper



Unscrew the screws



Lifting point

# Operator's manual

## 2.1 Assembly/Disassembly - continued



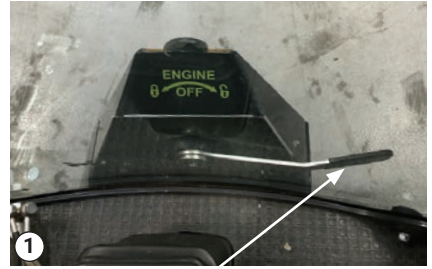
### Attention

Always clean the couplings on the attachment and basic machine before mounting.

1. The locking handle must be in unlocked position. (Picture 1)
2. Drive the basic machine right up to the A-frame of the attachment, so the A-frames fit into each other.
3. Raise the A-frame by pulling the right joystick (blue) back until the attachment is lifted free of the ground. (Picture 2)
4. Stop the machine.
5. Lock the attachment in place with the locking handle on the A-frame. (Picture 3)

The locking handle may only be engaged when the machine has been stopped and engine switched off.

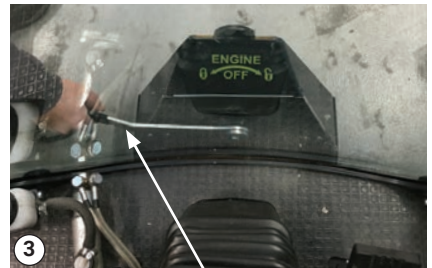
6. Connect the hydraulic quick couplings by turning the handle to locking position. (Picture 4)



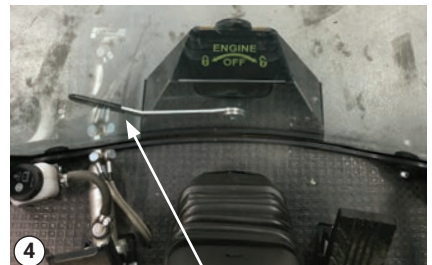
Lock handle



Joystick



Locking the attachment



Handle in locked position.

## 2.1 Assembly/Disassembly - continued

7. Turn the two stands away by:  
a) loosen the handle. (Picture 1)

b) Turn the stand to the side (outwards) and lift up and steer it into the key hole. (Picture 1)

c) Tighten the handle.  
Remember to do it on both stands. (Picture 2)

### Disassembly

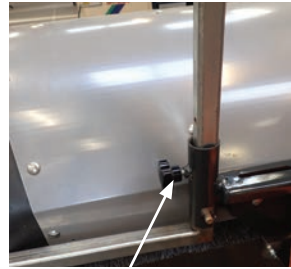
Follow the procedure for fitting in the reverse order.

①



Loosen handle

②



Stand in top position

# Operator's manual

## 2.2 Before start-up

### Transport

Raise the A frame to highest position before driving.  
Use right joystick (blue) and move backwards.

For smoother transport it is possible to use the load suspension. Press the load suspension button and load suspension is on. The function only works in transport mode. (Picture 1)



### Warning

never lower the A-frame during transportation.

## 2.3 Start-up

1. Start the machine. (See Basic machine manual)
2. Choose the winter menu on the display. (Picture 2)
3. Choose the Snow sweeper in the winter menu. (Picture 3)



Load suspension button and Right joystick



Choose winter menu



Choose Snow sweeper

## 2.3 Start-up - continued

### Adjust the Snow sweeper

3. Start the Snow sweeper by activating the working mode button (WM). (Picture 1)  
To disable work hydraulics, press the WM button briefly. To disable Work Mode completely, press the button for 2 seconds.



WM button

4. It is possible to change the brush rpm, weight transfer and engine rpm by selecting the correct bar and press the encoder to activate the bar. Turn the encoder left for lower and right for higher values of the selected bar. (Picture 2)

5. There are different brush settings to change. (Picture 4)

a) Engine rpm

When activating this bar engine RPM can be adjusted. (Picture 4, a)

b) Brush rpm.

When the Brush rpm bar (Picture 4, b) is selected, push the encoder, the bar turns green and the brush rpm can be changed by turning the encoder.

c) Weight distribution - removing weight from the brush.

When activating this bar (Picture 4, c) it is possible to adjust the brush pressure against the ground. Press the encoder, the bar turns green and the brush pressure can now be adjusted. For activating the weight transfer press the weight distribution button on the keypad. (Picture 3)

d) Reversing brush rotation direction.

The brush reverses until the button is pressed again and the button green indicator light turns off. (Picture 4, d)

e) Lifting the brush automatically when reversing (Option). If button (Picture 4, e), is activated (lighted) the brush is lifted from the ground when the CR3070 is in reverse.



Brush menu and encoder, scroll to bar to adjust, followed by a press at the encoder to adjust the bar level.



Activating weight distribution (c)



a b c d e

# Operator's manual

## 2.3 Start-up - continued

6. Turn the Snow sweeper by moving the joystick to the left or to the right. The Snow sweeper swings in the same direction as the joystick. (Picture 1)



### Warning

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



The Snow sweeper swings to the side when the joystick is moved left or right.

Make sure that no one is standing near the machine while it is in use.

### N.B

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

To increase the lifetime of the brushes, Egholm recommends to work with as little brush pressure as possible.

Always work with weight distribution adjusted and activated to set the right pressure depending on amount of debris/snow and having lowest possible wear of brushes in mind.



Swing the brush left and right.



# **Service and maintenance**

**Honest  
Machines**

# Service and maintenance

## 3.1 Cleaning

Daily cleaning and maintenance will extend the lifetime of both the machine and the attachment.

Clean the Snow sweeper with water when it is no longer required for use. Avoid high pressure cleaning of the quick couplings.

Open the protection cover, then wipe the quick couplings clean with a cloth. (Picture 1)



① Open protection cover, clean the couplings with a cloth

## 3.2 Maintenance

### Replacing the brush rings

1. Remove the flange that holds the brush rings by unscrewing the three bolts that hold the flange. (Picture 2)

2. Take all the brush rings and spacer rings off the brush axle. (Picture 3)

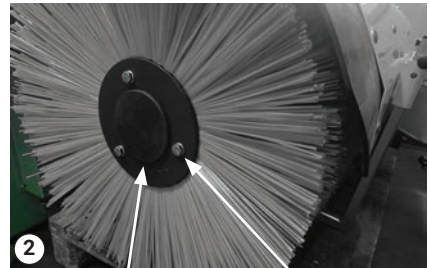
3. Mount a skewed brush ring on the brush axle with an incline towards the end of the axle.

4. Then place all the brush rings, each followed by a spacer ring, on the brush axle.

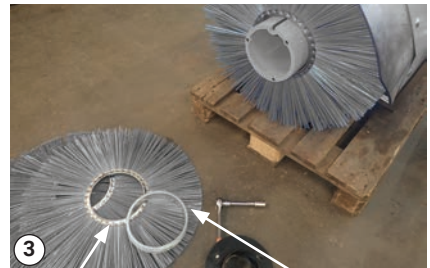
5. Finally, mount 2 skewed brushes facing the incline side to the center of the Snow sweeper.

6. Refit the flange.

New brush rings can be ordered from an authorised Egholm distributor.



② Disassembling the flange Bolt



③ Brush ring Spacer ring

### Greasing/Lubrication

The snow brush has four Lubrication nipples, two on each side. (Picture 4)



④ Lubrication nipple

## 3.2 Maintenance - continued

### **Storage outside the season**

When the Snow sweeper is to be stored outside the season, it is recommended to remove any flaking paint and to repaint any damaged areas.

It is recommended that the attachment is greased or sprayed with protective lubricant.

Never leave the Snow sweeper on the ground without using the stand. The brushes will be damaged.

# Conditions

**Honest  
Machines**

## 4.1 Warranty

The warranty period for the materials and manufacture of the snow sweeper is 12 months from the date of purchase.

In case of errors or defects on the machine within the warranty period, Egholm will carry out the necessary repairs at no charge to the customer, including materials and working hours, in accordance with the terms and conditions listed below.

### **The scope of the 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 place where 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, wrongfully performed maintenance or lack of the same, consequential damages 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 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 snow sweeper comes to the end of its working life, it should be disposed of in a responsible manner and in compliance with the 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 and dispose of.
3. After the parts mentioned have been removed, the machine is ready to be handed over to an approved scrap merchant.



# Honest Work.

**Egholm A/S**  
Transportvej 27  
7620 Lemvig, Denmark  
T.: +45 97 81 12 05  
[www.egholm.eu](http://www.egholm.eu) - [info@egholm.dk](mailto:info@egholm.dk)