

# Operator's manual



**Snow V-plough  
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 V-plough

To ensure the optimal performance of your City Ranger 3070 Snow V-plough, please read this operator's manual carefully before using the machine. Failure to do so can result in personal injury and damage to the machine.

### Safety

The Snow V-plough 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 V-plough 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 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 must 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 questions of any kind regarding your new 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](mailto:info@egholm.dk) · [www.egholm.eu](http://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.

# Contents

General information .....	5
1.1 Safety .....	5
1.2 EU Declaration of Conformity .....	8
1.3 Technical data .....	9
Operator's manual .....	11
2.1 Assembly/Disassembly .....	11
2.2 Important before start-up .....	13
2.3 Start-up .....	13
2.4 Adjustment .....	15
Service and maintenance .....	17
3.1 Cleaning .....	17
3.2 Maintenance .....	17
Conditions .....	20
4.1 Warranty .....	20
4.2 Complaints .....	21
4.3 Disposal .....	21
Notes .....	22

The Snow V-plough uses the tip of the 'V' to cut through heavy and encrusted snow, separating and pushing it to both sides. Even large amounts of snow are removed with ease.

The V-plough can also be configured as a 'Y' to allow snow to be transported away – very useful in car parks, markets, enclosed courtyards and other locations where snow needs to be gathered in one place.

The Snow V-plough is equipped as standard with a safety tilt system to protect paths and the machine.

The V-plough support has sideways suspension, so that the Snow V-plough always adjusts to ground conditions.

## Useful tips

Adjust the skids to suit ground conditions. If there are a lot of raised edges, set the skids high so they do not cut into the edges.

Use the Snow V-plough for big drifts. The Snow V-plough removes most of the snow and then the Snow sweeper finishes off the job.

Ensure the snap couplings are clean before fitting, 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 V-plough left blade swings to the side when the left joystick is moved left or right. The right blade swings to the side when the right joystick is moved left or right. Make sure that no one is standing near the machine while it is in use. (Picture 2)



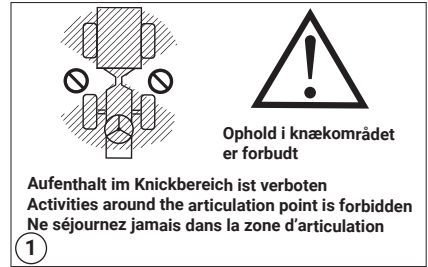
### Avoid crushing fingers

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

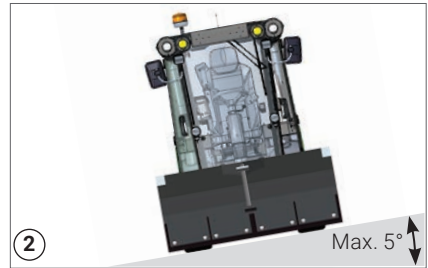


### Avoid roll-overs

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



Prevent people from standing in the working area.



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



Right Joystick

# General information

## 1.1 Safety - continued



### **Beacon on the machine must be turned on**

While working on public roads, the beacon on the machine 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 V-plough swivels outwards during strong steering movements.



### **Risk of crushing in the swivel area of the Snow V-plough**

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 V-plough 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 EU Declaration of Conformity

Manufacturer: **GMR maskiner a/s**  
Address: **Saturnvej 17 · DK-8700 Horsens**  
Telephone: **+45 75 64 36 11**

herby declares that

Machine: **Snow V-plough PS 1500 MKV**

· has been manufactured in conformity with:

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

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.

Place: Lemvig

Date:

Signature:



Poul Møller Rasmussen



# General information

## 1.3 Technical data

### Dimensions

Length (L) V position:

**Fitted**  
4,227 mm

Width (W) Straight / V and Y:

1,600 / 1,380 mm

Height with cab (H):

2,000/2,210 mm

### Storage dimensions

600 mm

1,600 / 1,380 mm

810 mm

### Technical data

Type description

PS 1500MKV

Weight on Snow V-plough

236 kg

Clearing width:

1,380 - 1,600 mm

Ground clearance below scraping edge, lifted V-plough in straight position

350 mm

Ground clearance below skids, lifted V-plough in straight position

280 mm

### Attention

Specifications may be changed without prior notice

# Operator's manual

**Honest  
Machines**

## 2.1 Assembly/Disassembly

### Delivery

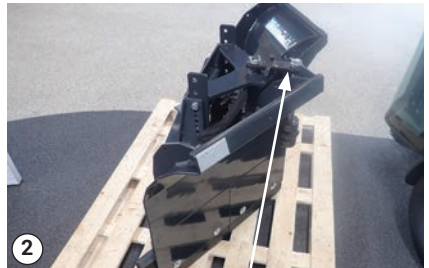
The Snow V-plough is delivered on a pallet wrapped in plastic.

Remove the plastic from the V-plough and pallet.

Lift the V-plough off the pallet - use a crane and the V-plough lifting point. (Picture 2)



Delivered on a pallet



Lifting point

# Operator's manual

## 2.1 Assembly/Disassembly - continued

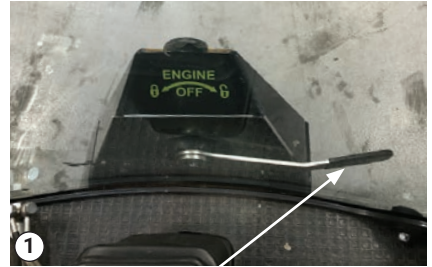


### Attention

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 and connect the hydraulic couplings by turning the locking handle to locked position. (Picture 3+4)

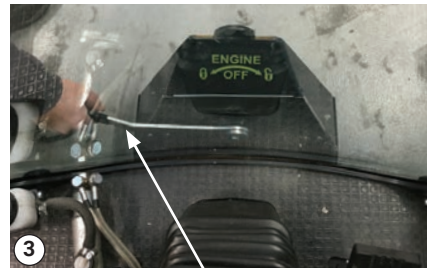
The locking handle may only be engaged when the machine has been stopped and engine switched off.



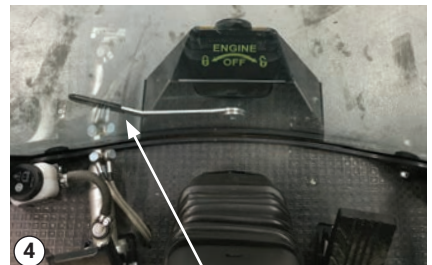
Lock handle



Joystick



Locking the attachment



Handle in locked position.

## 2.2 Important 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)



Load suspension button and Right joystick



### Warning

never lower the A-frame during transportation.

## 2.3 Start-up

1. Push the winter button on the display screen. (Picture 2)

Push the button for the Snow V-plough. (Picture 3)

The picture on the screen will now show the machine with a Snow V-plough. (Picture 4)



Select winter in the menu

2. Lower the Snow V-plough by moving the right joystick forward.



### Attention

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



### N.B

When turning, with spreader attached as well, the rear of the machine swings out, so there is a risk of crushing or collision.



### Attention

Always make sure the right tool is selected on the selection screen. If a wrong tool is chosen the tool may work in a wrong way.



Select Snow V-plough in the menu



The Snow V-plough and machine are now on the screen

# Operator's manual

## 2.3 Start-up - continued

3. Weight distribution - removing weight from the Snow V-plough.

When activating this function it is possible to adjust the Snow V-plough pressure against the ground. To use this function the machine must be in work mode (VM button) (Picture 1)

Press the encoder - The bar showing turns green and the blade pressure can now be adjusted.

(Picture 2) To switch to rpm bar, press the encoder (bar turns yellow) turn the encoder to select rpm bar and press the encoder. Bar turns green and rpm can be changed by turning the encoder.

For activating the ground pressure press the weight distribution button on the keypad. To get the complete Snow V-plough weight on the ground, press the floating button. (Picture 1)

4. Turn the Snow V-plough right by moving the right joystick to the left or to the right. Turn the Snow V-plough left by moving the left joystick to the left and right.

To activate both blades at the same time, press the blue button on right joystick, move the joystick forward the V-plough turns both blades forward (Y). Move the joystick back the V-plough turns backwards

Lift the Snow V-plough by pulling the right joystick and lower the Snow V-plough by pushing the joystick forward. (Picture 4)

5. Automatic lift A frame when reversing. To use this function the machine must be in work mode (VM button). (Picture 1) Activate the button with A frame pictogram (Picture 3)

The A frame will lift when the machine is set to reverse.



### Warning

Collision with solid obstacles – such as kerbstones – may damage the Snow V-plough. This damage may cause bolts to snap or parts of the Snow V-plough to bend.

Damage of this type is not covered by the warranty.



① Floating position Weight distribution VM button



② Bar for engine rpm Bar for ground pressure



③ A frame lift Encoder



④ Turning the Snow V-plough Lifting/lowering the Snow V-plough

## 2.4 Adjustment

Adjust the skids to the ground conditions.  
If there are a lot of raised edges set the skids high so they do not cut into the edges.

### Adjusting the scraping height

1. Raise the Snow V-plough by pulling the right joystick back. (Picture 1)

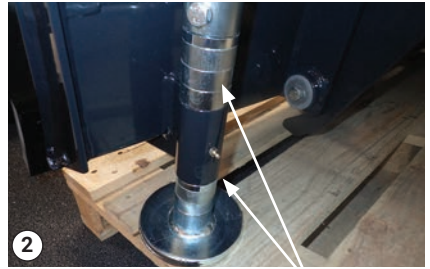
3. Stop the machine.

4. Remove the locking ring on the skid.  
(Picture 2)

Adjust the skid height by moving washers up or down.



The Snow V-plough is raised using the joystick



Skid

# 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.

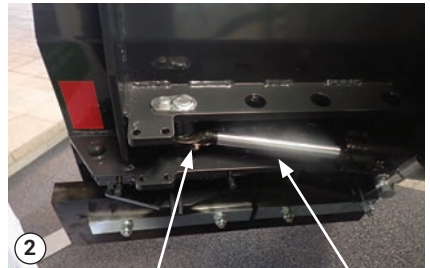
After use clean the Snow V-plough with clean water.

Avoid high pressure cleaning of the snap couplings.

Open the flap over the snap couplings. Use pressurised air to clean around the snap couplings. The couplings can be dried with a cloth (Picture 1). It is important the couplings are intact before the attachment is fitted.



Snap couplings



Location of lubrication nipples



Location of lubrication nipples



1 on each skid bracket.

## 3.2 Maintenance

### Lubricating the bearings

The grease point should be greased regularly with good quality grease. Set the V plades forward (Y)

1. Stop the machine.
2. Clean the **lubrication nipples** and lubricate the bearings until the grease starts to come out of the bearing. (Picture 2)

There are four **lubrication nipples** on the two cylinders. (Picture 3)

1 on each skid bracket. (Picture 4)

# Service and maintenance

## 3.2 Maintenance - continued

### Replacing the scraping edges

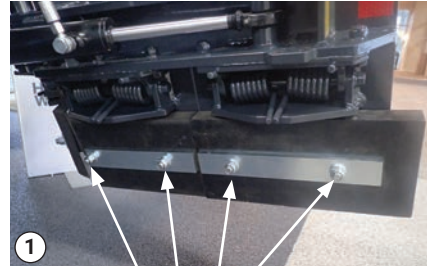
**The scrapers at most can be worn down to the scraper guard**

1. Lift the Snow V-plough to the uppermost position.
2. Stop the machine.
3. Remove the nuts and bolts holding the scraper edges and remove the scraper edges. (Picture 1)
4. Fit the new scraper edges by reversing the procedure.  
New scraper edges and skids can be ordered from an authorised Egholm distributor.

### Storage outside the season

When the Snow V-plough is to be stored outside the season, it is recommended to remove any loose paint and to repaint any damaged areas.

it is recommended to preserve grease and spray the attachment with a protective lubricants



Nuts holding the scraper



Same procedure when replacing both steel scraper or rubber scraper.

# Conditions

**Honest  
Machines**

# Conditions

## 4.1 Warranty

The warranty period for the materials and manufacture of this Snow V-plough 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 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, improper utilization of the machine, 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.

## 4.2 Complaints

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

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

Best regards  
Egholm A/S

## 4.3 Disposal

When — many years from now — your Snow V-plough 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 the plastic and rubber parts and dispose of them in accordance with the applicable environmental legislation.
3. After the parts mentioned have been removed, the machine is ready to be handed over to an approved scrap merchant.

# Notes



# 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)