

# Operator's manual



**Snow V-plough  
Park Ranger 2150**

# Introduction

## Dear Customer

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

The Park Ranger 2150 is a Danish-designed and manufactured product, which offers a very flexible way of maintaining outdoor areas.

### **Optimal use of your Park Ranger 2150 snow V-plough**

To ensure the optimal performance of your Park Ranger 2150 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 · www.egholm.eu

General information .....	5
1.1 Safety .....	5
1.2 EU Declaration of Conformity .....	6
1.3 Technical data .....	7
Operator's manual .....	9
2.1 Assembly / Disassembly .....	9
2.2 Important before start-up .....	10
2.3 Start-up .....	10
2.4 Adjustment .....	11
Service and Maintenance .....	13
3.1 Cleaning .....	13
3.2 Maintenance .....	13
Conditions .....	16
4.1 Warranty .....	16
4.2 Complaints .....	17
4.3 Disposal .....	17
Wearing parts .....	19
5.1 Wearing parts – Park Ranger 2150 snow V-plough .....	19
Notes .....	20

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 lever B is operated. The right blade swings to the side when lever B is operated, while pressing the button on the lever. Make sure that no one is standing near the machine while it is in use. (Picture 2)



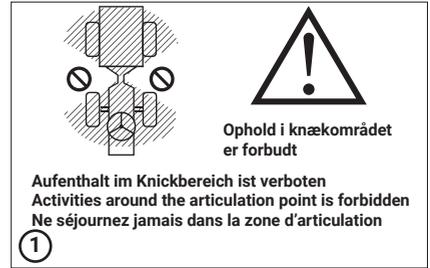
### **Avoid crushing fingers**

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



### **Avoid roll-overs**

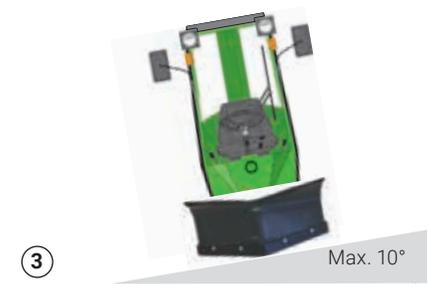
Do not drive the machine in a place where it can slide, tip or roll. Do not drive on slopes with an incline of more than 10°. (Picture 3)



Prevent people from standing in the working area



Lever B Button



Do not drive on slopes with an incline of more than 10°

# 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**

hereby declares that

Machine: **Snow V-plough 2150**

· has been manufactured in conformity with:  
European Parliament and Council directive 2006/42/EC of 17 June 2006 on approximation of the laws of the Member States on machinery.

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)	2,700 mm
Width (W)	1,200 mm
Height with cab (H):	1,935 mm
Height	

### Storage dimensions

500 mm
1,200 mm
600 mm

### Technical data

Weight on Snow V-plough	114 kg
Clearing width:	1,200 -1,400 mm
Ground clearance below scraping edge, lifted	140 mm
Ground clearance below skids, lifted	125 mm

### Attention

Specifications may be changed without prior notice

# Operator's manual

**Honest  
Machines**

## 2.1 Assembly / Disassembly

1. The locking handle on the A-frame of the base machine must be in the open position.
2. Drive the base machine right up to the A-frame of the snow V-plough, so the A-frames fit into each other. (Picture 1)
3. Raise the A-frame using lever A on the left-hand side of the base machine until the snow V-plough is freely suspended above the ground.
4. Lock the snow V-plough in place with the locking handle on the A-frame. (Picture 2)
5. Stop the machine.
6. Fit the hydraulic hoses to the B-connectors on the left-hand side of the machine. (Picture 3)
7. Insert the power plug in the power socket between the B-connectors.
8. Attach the hydraulic hoses using the rubber ring under the running board to ensure that they run correctly over the mud flap. (Picture 4)

### Disassembly

Follow the procedure for fitting in reverse order.

To make attachment and removal easier, set the left and right blades evenly.



A-frames interlocked



Lock the locking handle on the A-frame



Fit the hydraulic hoses and power plug



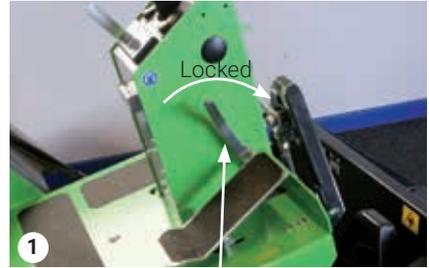
The hoses are fastened with a rubber strap

# Operator's manual

## 2.2 Important before start-up

### During transport

Lock the snow V-plough in the raised position using the transport lock. This prevents the attachment from lowering during transport. (Picture 1)



Transport lock

## 2.3 Start-up

1. Start the machine.

2. Lower the snow V-plough by pushing lever A on the left-hand side of the machine down to position 2. (Picture 2)

3. Turn the left blade of the snow V-plough by moving lever B on the left-hand side of the machine to the left or right. The snow V-plough swings in the same direction as lever B is moved.

4. Turn the right blade of the snow V-plough by pressing the button on lever B and moving lever B to the left or right. (Picture 3)



Use lever A to lower the snow V-plough



Lever B Button



### Attention!

Make sure no one is standing close to 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.



### 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.

## 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.

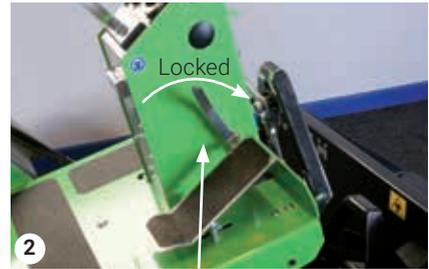
### Adjusting the scraping height

1. Raise the snow V-plough by pushing lever A on the left-hand side of the machine up to position 1. (Picture 1)



The snow V-plough is raised using lever A

2. Lock the snow V-plough in the raised position using the transport lock. (Picture 2)

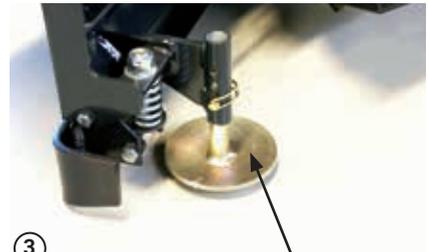


Transport lock

3. Stop the machine.

4. Remove the locking ring on the skid and place it in the other hole in the skid. (Picture 3)

Adjust the skid height by moving washers up or down.



Skid

# **Service and maintenance**

**Honest  
Machines**

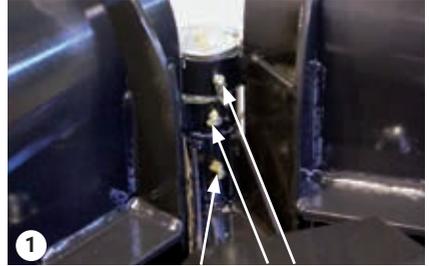
# Service and Maintenance

## 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.



Location of lubrication nipples

## 3.2 Maintenance

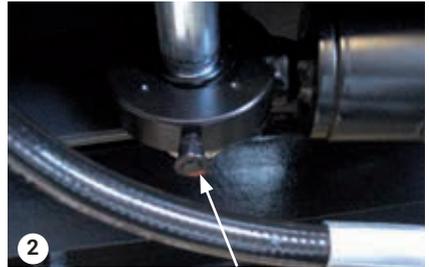
### Lubricating the bearings

The bearings in the pivot joint of the snow V-plough should be greased regularly with good quality grease.

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

There are five lubrication nipples in the centre swivel.

There are four lubrication nipples on the cylinder. (Picture 2)



Location of lubrication nipples



### Note

After 10 hours of operation - check if bolts and nuts are tightened.

# Service and Maintenance

## 3.2 Maintenance - continued

### Replacing the scraping edges

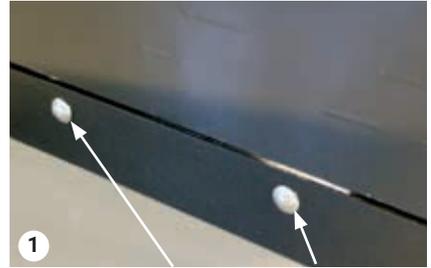
The scrapers at most can be worn down to the scraper guard.

1. Lift the snow V-plough to the uppermost position and lock with the transport lock. (See Section 2.2)
  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 the attachment is greased / sprayed with protective lubricant.



Nuts that hold the 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 implements.
- 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.

# Wearing parts

**Honest  
Machines**

# Wearing parts

## 5.1 Wearing parts – Park Ranger 2150 snow V-plough



E09722135 Rubber scraping edge for V-plough



E01108120 Spacer profiles for steel scraper



E01108090 Steel scraper kit for V-plough



E01108130 Front plate for rubber scraping edge, V-plough



E01905020 Safety split pin for skids



E01108100 Rubber scraping edge kit, for switch from steel scraper



E01108080 Skid for Snow V-plough



E01108110 Back plate for rubber scraping edge

# 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)