

Operator's manual



**Snow 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 plough

To ensure the optimal performance of your City Ranger 3070 Snow plough, 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 plough is equipped with various devices to ensure optimal operational safety both for the user and the surroundings. We therefore ask you to pay particular attention to Safety section 1.1. The machine must only be serviced by professionals.

The Snow plough 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 a permanent part of the machine and so 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 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

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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 Snow plough truly shows the strength and power of the City Ranger 3070. The machine, with its four-wheel drive and carefully designed weight distribution pushes snow effortlessly away.

Hydraulically adjustable, the Snow plough pushes the snow to whichever side you choose, and can be ingeniously combined with the salt and sand spreader to make icy patches safe at the same time.

To protect both the surface and the machine, the Snow plough is fitted as standard with a safety tilt system and a Vulcullan- (rubber) -or steel scraping edge.

The Vulcullan (rubber) scraping edge is ideal for use with melting snow and also scrapes the surface thoroughly without damaging it.

Useful tips

Adjust the skids according to surface conditions.

In case of many raised edges, set the skids high so they do not cut into the edges.

Use the Snow plough for big drifts. The Snow plough removes most of the snow. 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

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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 along slopes with an inclination 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/disassembly of an attachment on a flat and stable ground only!



Avoid standing close to the machine while it is in use

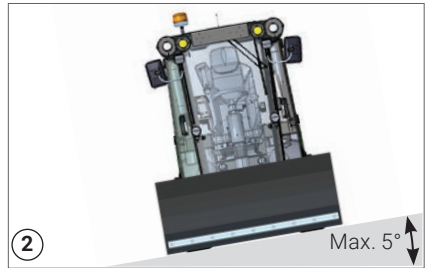
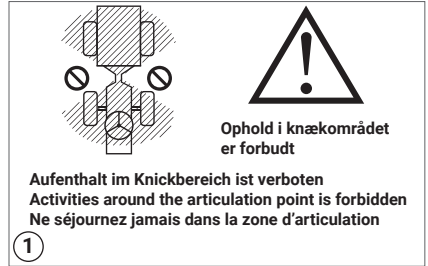
Make sure that no one is near the machine while it is in use as there is a danger of crushing. (Picture 1)



Reverse or shunting manoeuvres may only be performed when the Snow plough is raised.



The Snow plough 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 3)



Do not drive along slopes with an inclination of more than 5°



Right joystick

General information

1.1 Safety - continued



Beacon 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 plough swivels outwards during strong steering movements.



Risk of crushing in the swivel area of the Snow 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 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 EC Declaration of Conformity for Machinery

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


herby declares that

Machine: **Snow plough**
Type: **FS1500M**

· 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

1.3 Technical data

Dimensions	Assembled	Storage dimensions
Length (L):	4.257 mm	700 mm
Width (W):	1.500 mm	1.500 mm
Height (H) /machine with beacon: 2.000 / 2.210 mm	650 mm

Technical data

Type description:	FS1500M
Weight of Snow plough: Rubber / Steel blade	183/183 kg
Clearing width: straight and angled	1.500/1.360 mm
Ground clearance below scraping edge, lifted Straight position	390 mm
Ground clearance below skids, lifted:	300 mm
Adjuster discs per skid:	7

NB

Specifications may be changed without prior notice

Operator's manual

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2.1 Assembly/Disassembly

Delivery

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

Remove the plastic from the Snow plough and pallet.

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



Delivered on a pallet



Lifting point

Operator's manual

2.1 Assembly/Disassembly - continued

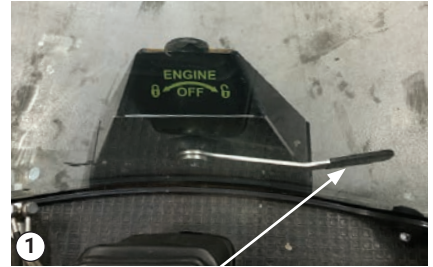


Attention

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)

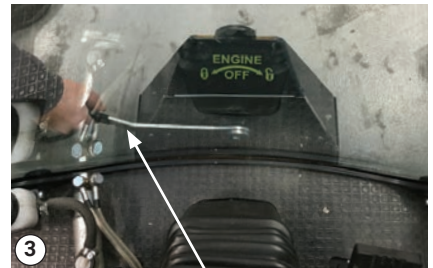
The locking handle may only be engaged when the machine has been stopped and engine switched off.



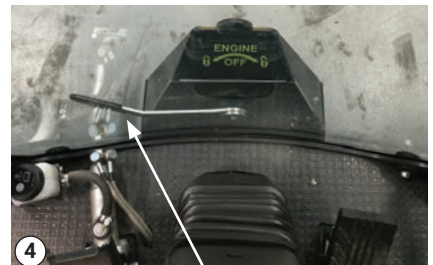
Lock handle



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)



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 plough. (Picture 3)
The picture on the screen will now show the machine with a Snow plough. (Picture 4)

2. Lower the Snow 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 attachment is selected on the selection screen.
If a wrong attachment is chosen the attachment may work in a wrong way.



Load suspension button and Right joystick



Select winter in the menu



Select Snow plough in the menu



The Snow plough and machine are now on the screen

Operator's manual

2.3 Start-up - continued

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

When activating this function it is possible to adjust the Snow 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 plough weight on the ground, press the floating button. (Picture 1)

4. Turn the Snow plough by moving the right joystick to the left or to the right. The Snow plough swings in the same direction as the joystick.

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



Warning

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

Damage of this type is not covered by the warranty.

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.

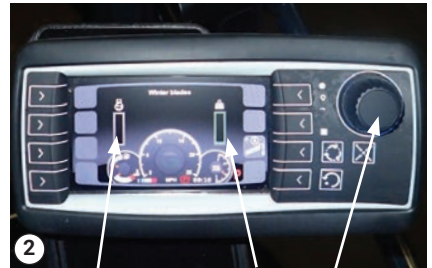


①

Floating position

Weight distribution

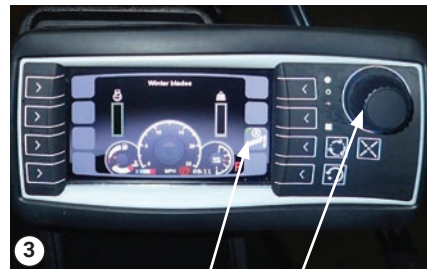
Work mode



Bar for engine RPM

Encoder

Bar for ground pressure



③

A frame lift

Encoder



④

Turning the Snow plough

Lifting/lowering the Snow plough

2.4 Adjustment

Adjust the skids according to the surface conditions.

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

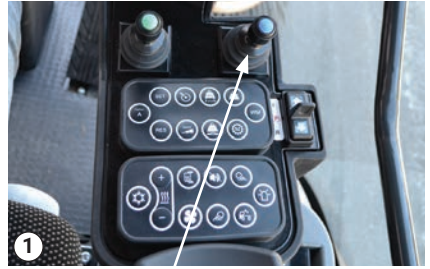
The scraping height is adjusted by changing the number of adjuster discs between the skid and the scraper guard. (Picture 2)

Adjusting the scraping height

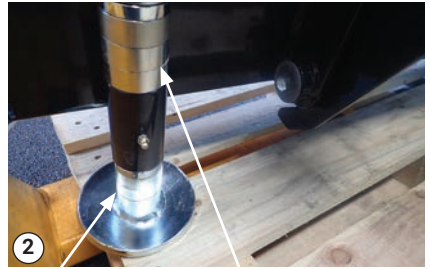
1. Raise the Snow plough by pulling the right joystick backwards. (Picture 1)
2. Stop the machine.
3. Remove the locking ring on the skid, take off the skid and place the required number of adjuster discs between the skid and the scraper guard (the same number on both skids). (Picture 2)
4. Fit the skid and put the remaining adjuster discs on the skid above the scraper guard.
5. Put the locking ring back on the skid.

Optional equipment

If the Snow plough is mounted with wheels, the adjustment is done by turning the hand wheel.



The Snow plough is raised using the right joystick



Adjuster discs Remaining adjuster discs

Service and maintenance

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Service and maintenance

3.1 Cleaning

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

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

Wipe the quick couplings clean with a cloth. (Picture 1)



Quick couplings

Service and maintenance

3.2 Maintenance

Greasing / Lubrication

The bearings in the pivot joint of the Snow plough and the cylinder joints 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. Also the skid (or wheel) holders have grease nipples. (Picture 1+2) In total 7 greasing points

Replacing the scraping edge

The scraper can be worn down to the scraper guard.

1. Lift the Snow plough to the uppermost position.
2. Stop the machine.
3. Remove the nuts and bolts holding the scraper edge and remove the scraper edge. (Picture 3+4)

4. Fit the new scraper edge by reversing the procedure.

New scraper edges and skids can be ordered from an authorised Egholm distributor.

NB:

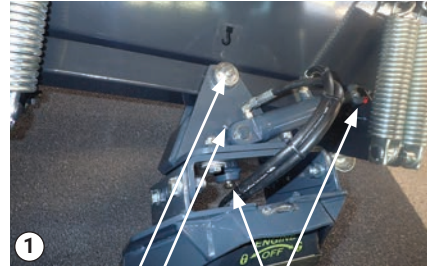
To extend lifetime of the scraper:

The scraper edge (both rubber and steel) can be turned and used before a new part is needed.

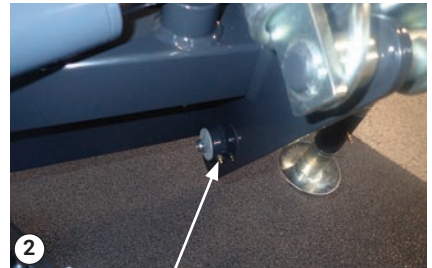
Storage outside the season

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

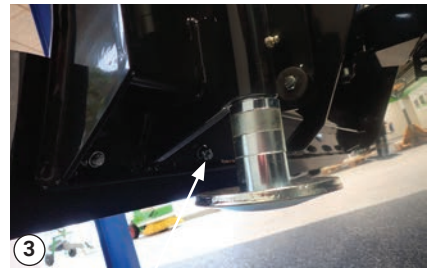
It is recommended that the attachment is greased / sprayed with protective lubricant.



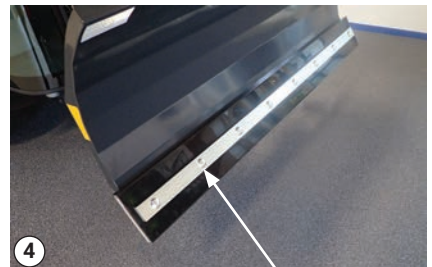
Location of lubrication nipples



Location of lubrication nipples



Loosen the nuts on the edge backside



Nuts holding the scraper edge

Conditions

**Honest
Machines**

Conditions

4.1 Warranty

The warranty period for the materials and manufacture of this Snow 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 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, changes to the construction of the machine or use of non-Egholm spare parts or attachments.
- Machines with illegible serial numbers.
- Damage cause by force majeure such as lightning, flood, fire, war, civil disturbance etc., or other causes over which Egholm has no control.

4.2 Complaint

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 plough has reached 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.

Notes

Honest Work.

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