

OPERATOR'S MANUAL
Environmental Rake



Introduction

Dear Customer

Thank you for buying an Egholm product

The Egholm 2001 is a Danish designed and manufactured product which offers a very flexible way of maintaining outdoor areas.

Optimal performance of your Egholm Environmental Rake:

To ensure the optimal performance of your Egholm Environmental Rake, 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 Environmental Rake 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 Environmental Rake is designed only for use by professionals. On delivery, the user will receive thorough instructions in the use of the machine and will thus 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 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 Maskiner A/S accepts no liability for errors or shortcomings 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 Maskiner A/S.

Best regards
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Tel: (+45) 97 81 12 05 - Fax: (+45) 97 81 12 10
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1. General information

Keeping gravel paths weed free without using pesticides requires regular effort. The Environmental Rake helps significantly with this regular task. The Environmental Rake uproots the weeds and levels even compacted gravel when repeatedly run over the surface.

The Environmental Rake does not get caught in tree roots or other obstacles, as the weeds are lifted by a rear-facing hoe.

A perfect result can be achieved quickly with a raking width of 110 cm. All the while the machine remains very easy to manoeuvre when working on narrower paths.

Useful tips

Fitting - Raise the rear lifter right up and hang the Environmental Rake loosely up before gently tipping the rake until it clicks into place.

Weed continuously instead of waging irregular battles. Weeds are best controlled by starting early in the spring and raking regularly throughout the summer.

Supplement the Environmental Rake with the Stone Rake when the gravel paths are weed free and just need levelling.

Adjust the rake at the back so it is as high as possible to increase the ground clearance - this makes manoeuvring easier.

1. General information

1.1 Safety



Make sure no one stands close to the machine when 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.



N.B!

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)



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 2)



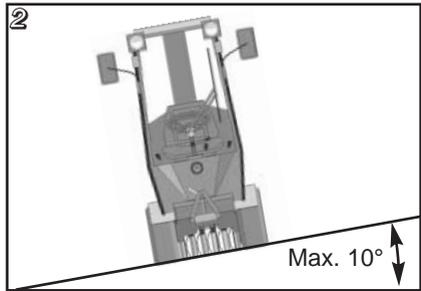
Reduction of noise and energy consumption:

It is recommended not to drive with a higher engine speed than necessary, to reduce the noise and the energy consumption.

1



Prevent people from standing in the working area.



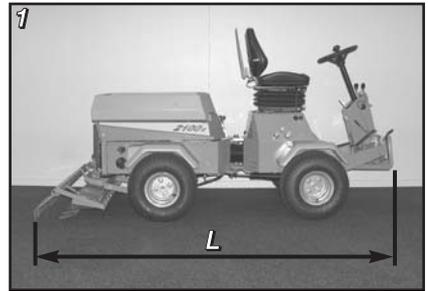
Do not drive on slopes with an incline of more than 10°

1. General information

1.3 Technical data

Dimensions:

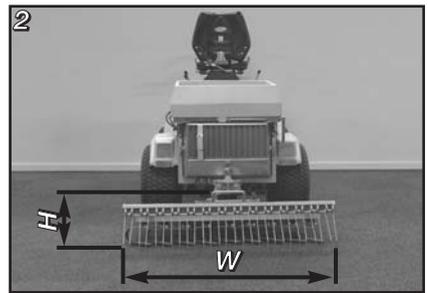
	Assembled:	Storage dimensions:
Length (L):	2,500 mm	500 mm
Width (W):	1,100 mm	1,100 mm
Height without cab (H):	350 mm	260 mm
Height with cab	1,935 mm	



Side view

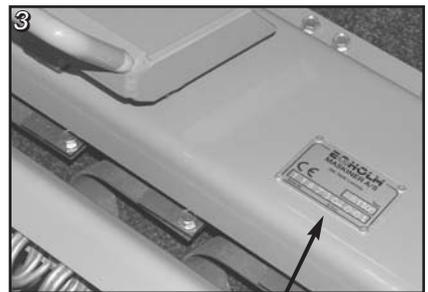
Technical data:

Type description:	MR1100
Weight of Environmental Rake:	35 kg
Raking width:	1,100 mm
Ground clearance below rake, raised:	80 mm
Working depth in ground of hoe:	20-40 mm



From rear

Number of rake hoes:	9
Number of rake teeth:	14



Location of model plate

N.B!

Specifications may be changed without prior notice.

2. Instructions for use

2.1 Assembly / Disassembly

Assembly:

1. Make sure the hydraulic hoses are connected to the C-connectors on the left-hand side of the machine. (Picture 1)
2. Raise the rear lifter completely by pushing lever C up to position 1. (Picture 2)
3. Pull out the locking pawl on the rear lifter, turn it so it "hangs" loosely on the edge of the rear lifter. (Pictures 3 and 4)
4. Hang the Environmental Rake loosely on the rear lifter and tip the rake so that it clicks into position; the Environmental Rake is now firmly attached. (Picture 5)

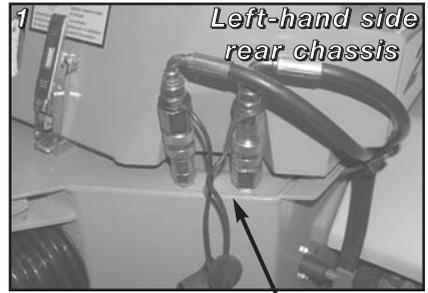
Disassembly:

1. Raise the rear lifter completely by pushing lever C up to position 1. (Picture 2)
2. Pull out the locking pawl in the rear lifter, the Environmental Rake tips downwards and hangs loosely on the rear lifter.
3. Unhook the Environmental Rake from the rear lifter.

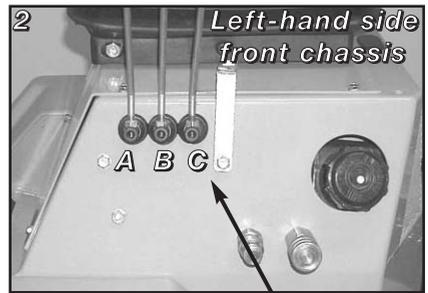
2.2. Before start-up

During transport - lock the Environmental Rake in the raised position.

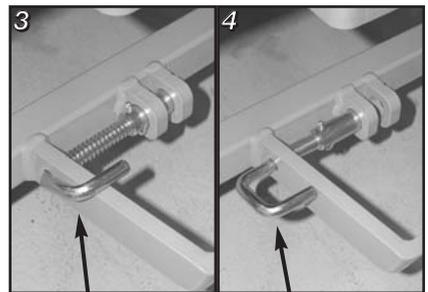
1. Raise the rear lifter completely by pushing lever C up to position 1. (Picture 2)
2. Switch off the machine. (See the operator's manual for the basic machine, section 2.2)
3. Disconnect the hydraulic hoses from the rear lifter. (Picture 1)
4. Put the protective caps on the snap couplings to protect them from dirt.



Hoses on the rear lifter on the C-connectors

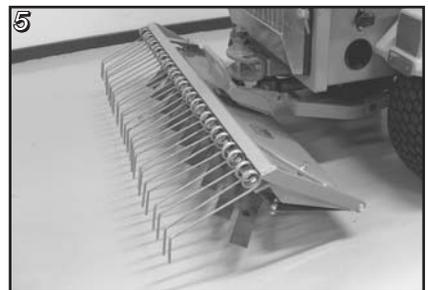


Raise the rear lifter with lever C



Locking pawl locked

Locking pawl unlocked



Hang the Environmental Rake on the rear lifter

2. Instructions for use

2.3 Start-up

1. Start the machine. (See the operator's manual for the basic machine, section 2.2)
2. Lower the Environmental Rake by pushing lever A on the left-hand side of the machine down to position 2. (Picture 1)
3. It is recommended to hold the lever down for about 2 seconds, as after this the Environmental Rake is in a floating position and follows the contours of the ground.
4. Start driving forward. (Picture 2)

The Environmental Rake must be raised above the ground before reversing to avoid damaging the rake.



Warning!

Make sure there is no one close to the machine when it is running.



N.B!

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

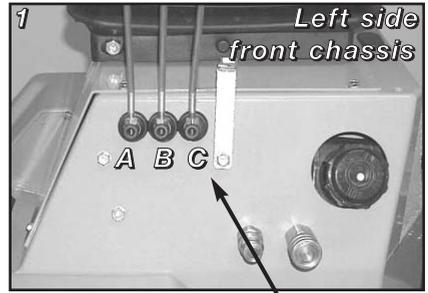


It is recommended not to drive with a higher engine speed than necessary, to reduce the noise and the energy consumption.

2.4 Adjustment

Adjust the rake at the back so it is as high as possible to increase the ground clearance - this makes manoeuvring easier.

1. Loosen the lock-nut on the underside. (Picture 4)
2. Increase the ground clearance by screwing the bolt further down through the nut on the top. (Picture 4)
3. Retighten the lock-nut.
4. Adjust the ground clearance on the other side in the same way.



Lower the Environmental Rake with lever C



Driving forward with the Environmental Rake lowered



Lock-nut and bolt

3. Service and maintenance

3.1 Cleaning

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

Clean the Environmental Rake with water after use.

3.2 Maintenance

Replacing the rake hoes:

1. Turn the Environmental Rake upside down.
2. Unscrew the nuts and bolts which hold the hoes and remove the hoes. (Picture 1)
3. Fit new hoes by reversing the procedure.

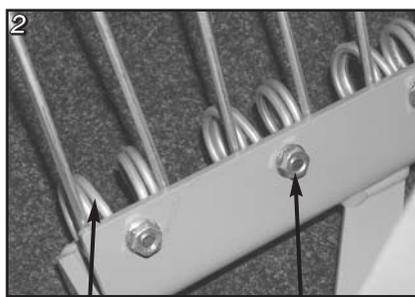


Rake hoe

Bolts and nuts

Replacing the rake teeth:

1. Turn the Environmental Rake upside down.
2. Unscrew the nuts and bolts which hold the teeth and remove the teeth. (Picture 2)
3. Fit new teeth by reversing the procedure.



Rake tooth

Bolt and nut

New hoes and rake teeth can be ordered from an authorised Egholm distributor.

Rust protection:

It is recommended to regularly remove any loose paint and repaint the area concerned.

4. Conditions

4.1 Warranty

The warranty period for the materials and manufacture of this Environmental Rake is 12 months from the date of purchase.

In case of errors or defects on the machine within the warranty period, Egholm Maskiner A/S will carry out the necessary repairs without charge for materials and working hours in accordance with the terms and conditions listed below. The customer is to cover the costs for transportation for repair.

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 guarantee.
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. Egholm Maskiner A/S reserves the right to make improvements and design-related alterations to the machine without being obliged to modify previously delivered models in relation hereto.
6. This warranty is valid for persons who have legally acquired the machine within the warranty period.

The guarantee 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 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 Maskiner A/S has no control.

4. Conditions

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 to any complaints.

If there are questions that the distributor cannot answer, please do not hesitate to contact Egholm Maskiner A/S directly. Also feel free to contact us with suggestions or requests for special implements and/or features for the machine. We wish you many years of safe and satisfied use of your machine.

Best regards

Egholm Maskiner A/S - Transportvej 27 - DK -7620 Lemvig, telephone: +45 97 81 12 05, fax: 97811210

4.3 Disposal

When – many years from now – your Egholm Environmental Rake comes to the end of its working life, it should be disposed of in a responsible manner and conform 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 discard in a dustbin.
3. After the parts mentioned have been removed, the machine is ready to be handed over to one of your local approved scrap merchants.

A large, faint, light-colored oak leaf is centered on the page, serving as a background for the contact information. The leaf's veins are clearly visible.

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