

# Operator's manual



**Environmental rake  
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 environmental rake

To ensure optimal performance of your Park Ranger 2150 environmental rake, please read this manual carefully before using 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 therefore ask you to pay particular attention to Safety section 1.1. The machine must only be serviced by professionals.

The environmental rake is intended only for professional use, and 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 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 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.

Best regards

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

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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.

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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.

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

# General information

**Honest  
Machines**

# 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.



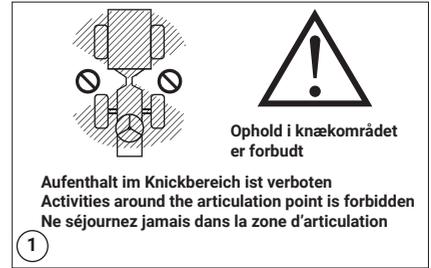
### **Avoid roll-overs**

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.



Prevent people from standing in the working area



# General information

## 1.2 EC Declaration of Conformity for Machinery

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

hereby declares that

Machine: **Environmental rake 2150**  
Type: **MR1100**

· has been manufactured in conformity with the provisions of the Machinery Directive, 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:   
Rainer Flanz, R&D Manager

# General information

## 1.3 Technical data

### Dimensions

Length (L)

Width (W)

Height with cab

Height

### Assembled

2,500 mm

1,100 mm

1,935 mm

### Storage dimensions

500 mm

1,100 mm

260 mm

### Technical data

Type description

Weight of environmental rake

Raking width

Ground clearance below rake, raised:

Working depth in ground of hoe:

MS1100

35 kg

1,100 mm

80 mm

20-40mm

Number of rake hoes

9

Number of rake teeth

14

### N.B!

Specifications may be changed without prior notice.

# Operator's manual

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## 2.1 Assembly / Disassembly

### Assembly

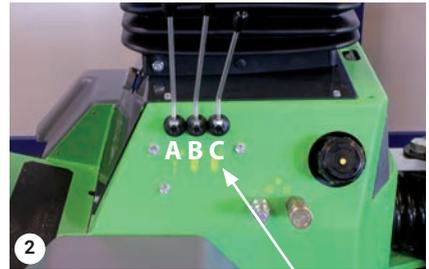
1. Lock and unlock rear lifter. (Picture 5)
2. Raise the rear lifter completely by pushing lever C up to position 1. (Picture 2)
3. Unlock rear lifter: Pull the lock backwards and up in the locking slot (Picture 1)
4. Pull out the locking pawl on the rear lifter, turn it so it "hangs" loosely on the edge of the rear lifter. (Picture 3)
5. 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 4)

### Disassembly

1. Raise the rear lifter completely by pushing lever C up to position 1. (Picture 2)
2. Lock rear lifter: Pull the lock out of the locking slot and release it, (can be done with the rear lifter in raised or lowered position.) (Picture 5)
3. Pull out the locking pawl in the rear lifter, the environmental rake tips downwards and hangs loosely on the rear lifter.
4. Unhook the environmental rake from the rear lifter.



1 Unhook the environmental rake from the rear lifter.



2 Raise the rear lifter with lever C



3 Locking pawl locked      Locking pawl unlocked



4 Hang the environmental rake on the rear lifter



5 Lock/Unlock rear lifter

# Operator's manual

## 2.2 Start-up

1. Start the machine.
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+3)

**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!

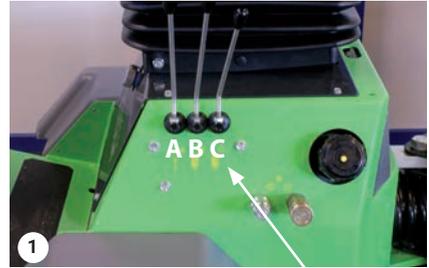
When turning, the rear of the machine swings out, so there is a risk of crushing or collision.

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

## 2.3 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.



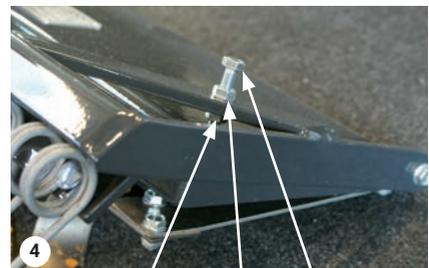
1 Lower the environmental rake with lever C



2 Driving forward with the environmental rake lowered



3 Driving forward with the environmental rake lowered



4 Lock-nut, nut and bolt

# 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 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.

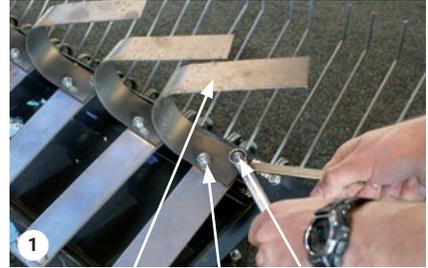
### Replacing the rake teeth

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.

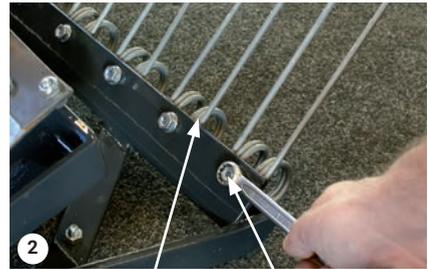
New hoes and rake teeth can be ordered from an authorised Egholm distributor.

### Rust protection

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



Rake hoe Bolts and nuts



Rake tooth Bolt and nut

# Conditions

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# Conditions

## 4.1 Warranty

The warranty period for the materials and manufacture of the environmental rake 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 for 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 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 at 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.

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

Best regards  
Egholm A/S

## 4.3 Disposal

When, many years from now, your environmental rake 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 authorised municipal scrap merchant.

# Honest Work.

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